CDP-H1750

SERVICE MANUAL

US Model
Canadian Model
Mexican Model

This set is the CD player section
in MHC-1750.

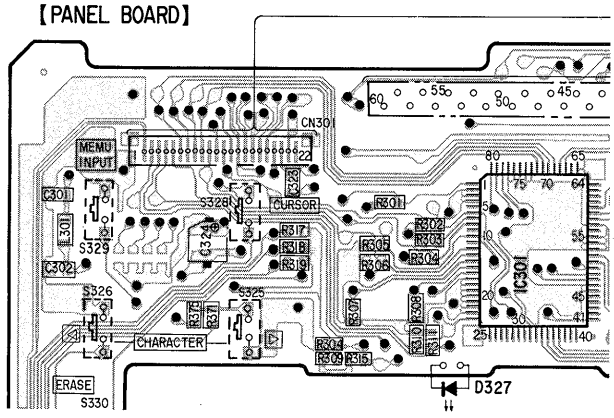
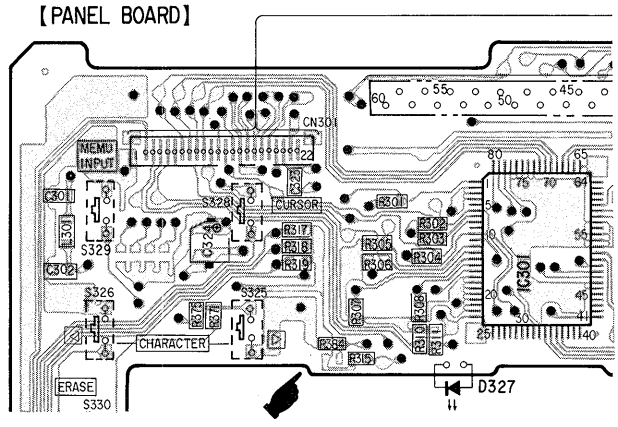
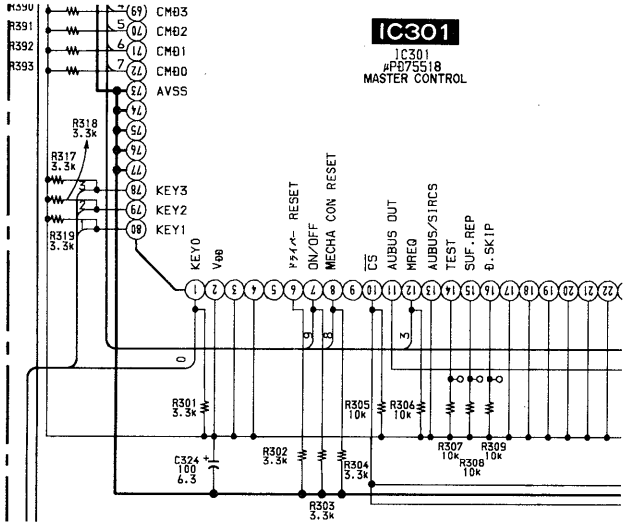
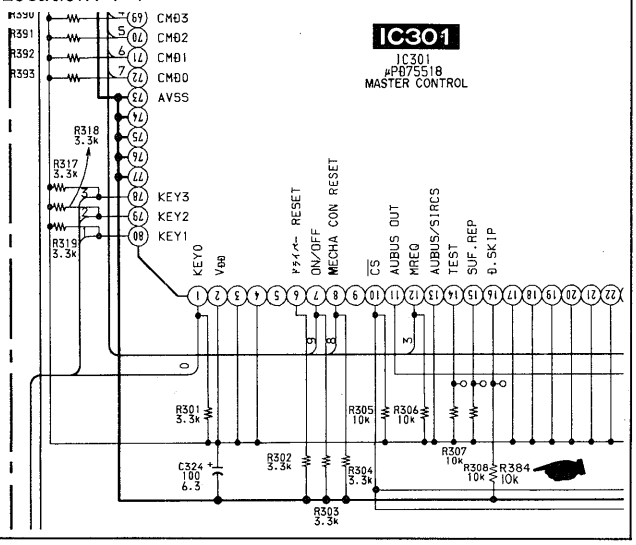
- CDP-H1750 is a model which has been designed based on the CDP-H3750.
- The electrical specifications of this model are almost identical to those of CDP-H3750.
  This manual contains only the points which differ from CDP-H3750.
- Refer to the CDP-H3750 Service Manual for related information not contained in this manual.
- Refer to the CDP-H3750 US model for Mexican model.

COMPACT DISC PLAYER

SONY®

DIAGRAMS

☛ : indicates changed portions

Page	CDP-H3750	CDP-H1750
10	【PANEL BOARD】 	Location: G-3 【PANEL BOARD】 
13		Location: F-4 

EXPLODED VIEWS

Page	CDP-H3750				CDP-H1750		
	No.	Part No.	Description	Remarks	Part No.	Description	Remarks
19	3	X-4942-946-1	PANEL ASSY, FRONT		X-4943-076-1	PANEL ASSY, FRONT	
	*13	A-4649-455-A	PANEL BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)		*A-4649-457-A	PANEL BOARD, COMPLETE	

ELECTRICAL PARTS LIST

Page	CDP-H3750				CDP-H1750		
	No.	Part No.	Description	Remarks	Part No.	Description	Remarks
26	*	A-4649-455-A	PANEL BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)		*A-4349-457-A	PANEL BOARD, COMPLETE	
27	R309	1-216-073-00	METAL CHIP 10k 5% 1/10W		————		
	R384		————		1-216-073-00	METAL CHIP 10k 5% 1/10W	

9-957-472-12

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Audio Group

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CDP-H3750

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

This set is the CD player section in FH-E705C, MHC-2750/3750.

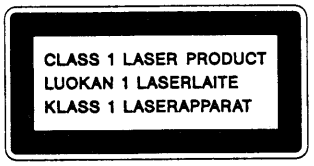
Model Name Using Similar Mechanism	NEW
CD Mechanism Type	CDM23-5BD3
Optical Pick-Up Block Type	BU-5BD3

SPECIFICATIONS

System	Compact disc digital audio system
Laser	Semiconductor laser (λ = 780 nm) Emission duration: continuous
Laser output	Max. 44.6 μW* * This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
Signal to noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Harmonic distortion	Less than 0.05% (at 1 kHz)
Channel separation	More than 90 dB
Output level	1.6 V (at 50 kilohms)
Load impedance	More than 10 kilohms

Design and specifications subject to change without notice.

For the United Kingdom and European countries.



This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT label is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

COMPACT DISC PLAYER

SONY®

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

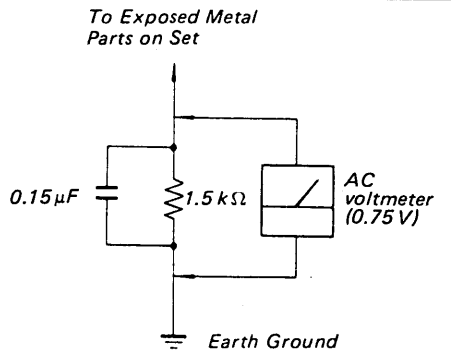


Fig. A. Using an AC voltmeter to check AC leakage.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

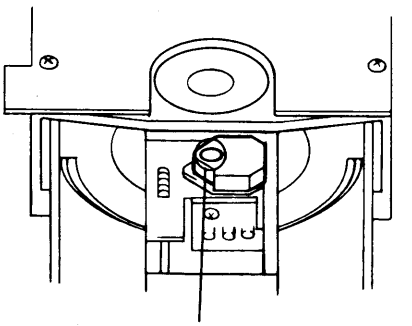
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential diference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30cm away from the objective lens.

LASER DIODE AND FOCUS SERCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objective lens.



- Confirm that laser beam is spread.
- Up and down motion of the objective lens. (3 times)

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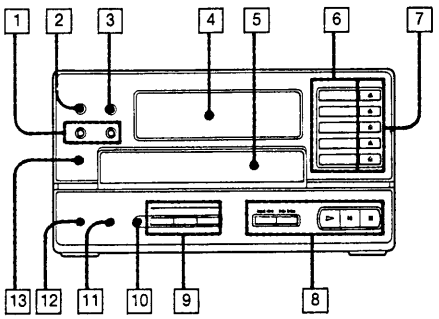
SECTION 1
GENERAL

This section is extracted from instruction manual.

1-1. PARTS IDENTIFICATION

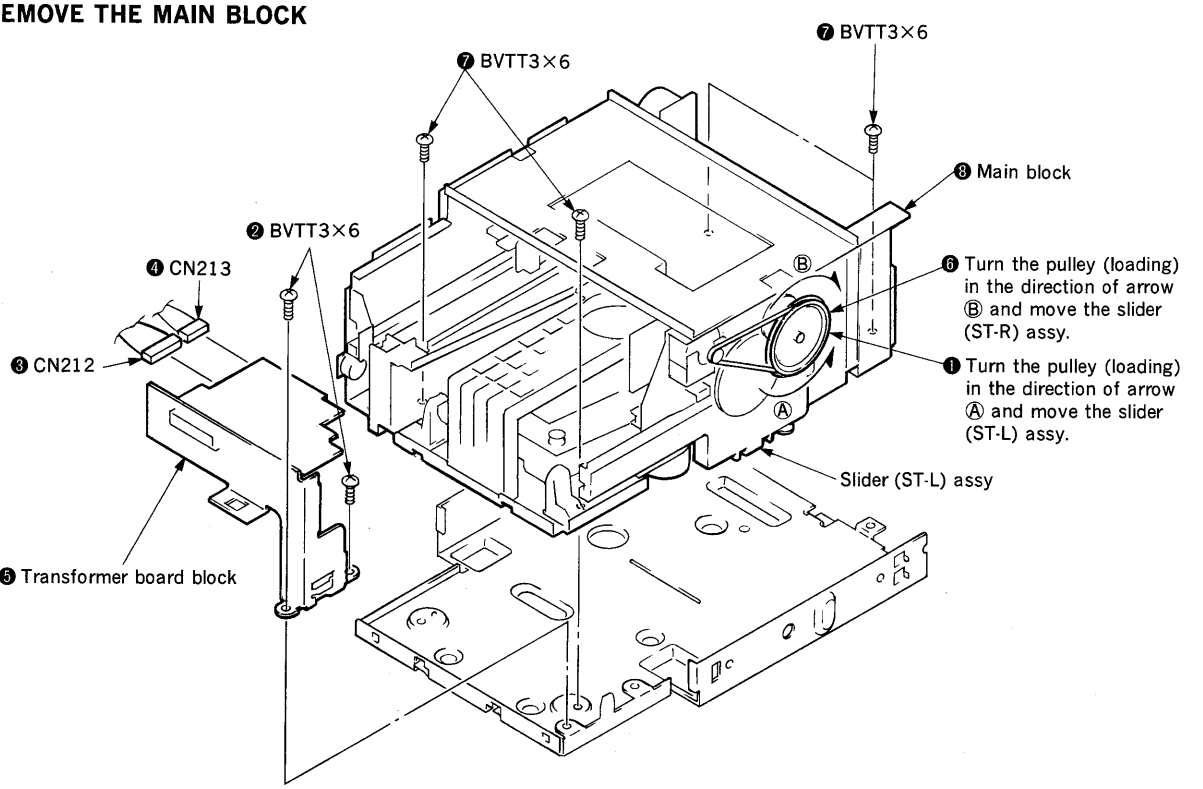


1 CHARACTER ◁/▷ buttons ⑭
2 MEMO INPUT button ⑭
3 CURSOR button ⑭
4 Display window
5 Disc tray door
6 DISC 1 — 5 selectors and disc tray indicators ㉘ ㉞
7 OPEN/CLOSE ⏏ buttons ㉘
8 CD operation buttons
■: Stop button
❚❚: Pause button
▷: Play button
⏮◀◀ ▶▶⏭: Manual search (when kept depressed)/AMS* (when pressed) buttons
9 PLAY MODE buttons
PROGRAM button ㊹
SHUFFLE button ㊵
CONTINUE button ㉚
10 REPEAT button ㊷
11 TIME/MEMO button ㉜ ㊱
12 SOUND FIELD FILE button ㊽
13 ERASE button ㊱ ㊽

SECTION 2
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

2-1. REMOVE THE MAIN BLOCK


❼ BVTT3×6
❼ BVTT3×6
❽ Main block
❷ BVTT3×6
❹ CN213
❸ CN212
❻ Turn the pulley (loading) in the direction of arrow Ⓑ and move the slider (ST-R) assy.
❶ Turn the pulley (loading) in the direction of arrow Ⓐ and move the slider (ST-L) assy.
Slider (ST-L) assy
❺ Transformer board block

2-2. EXCHANGE OF STOCKER ASSY

How to Attachment
❶ Turn the pulley (loading) set the chassis hole position to slider (ST-L) assy. (See Fig. A)
❷ Turn the pulley (loading) ⓐ set the position of illustration for slider (TB).
❸ Attach the stocker assy.

Note) Sure attach to ditch of chassis side for shaft or claw of stocker assy.

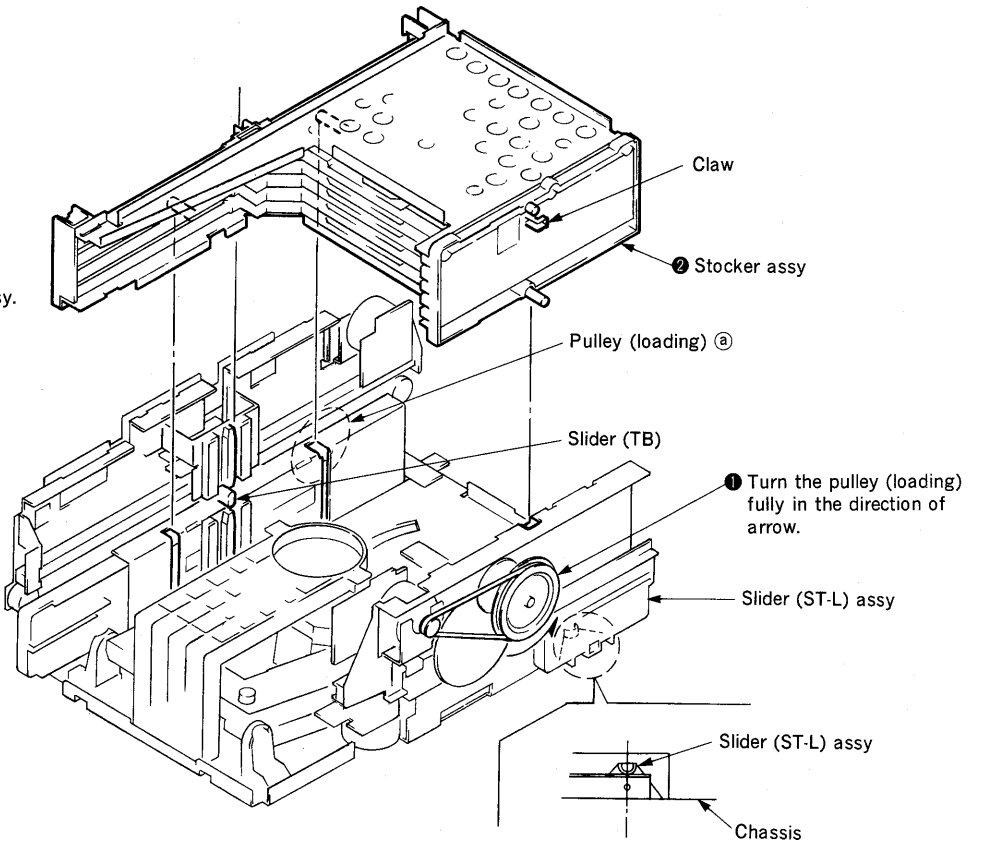
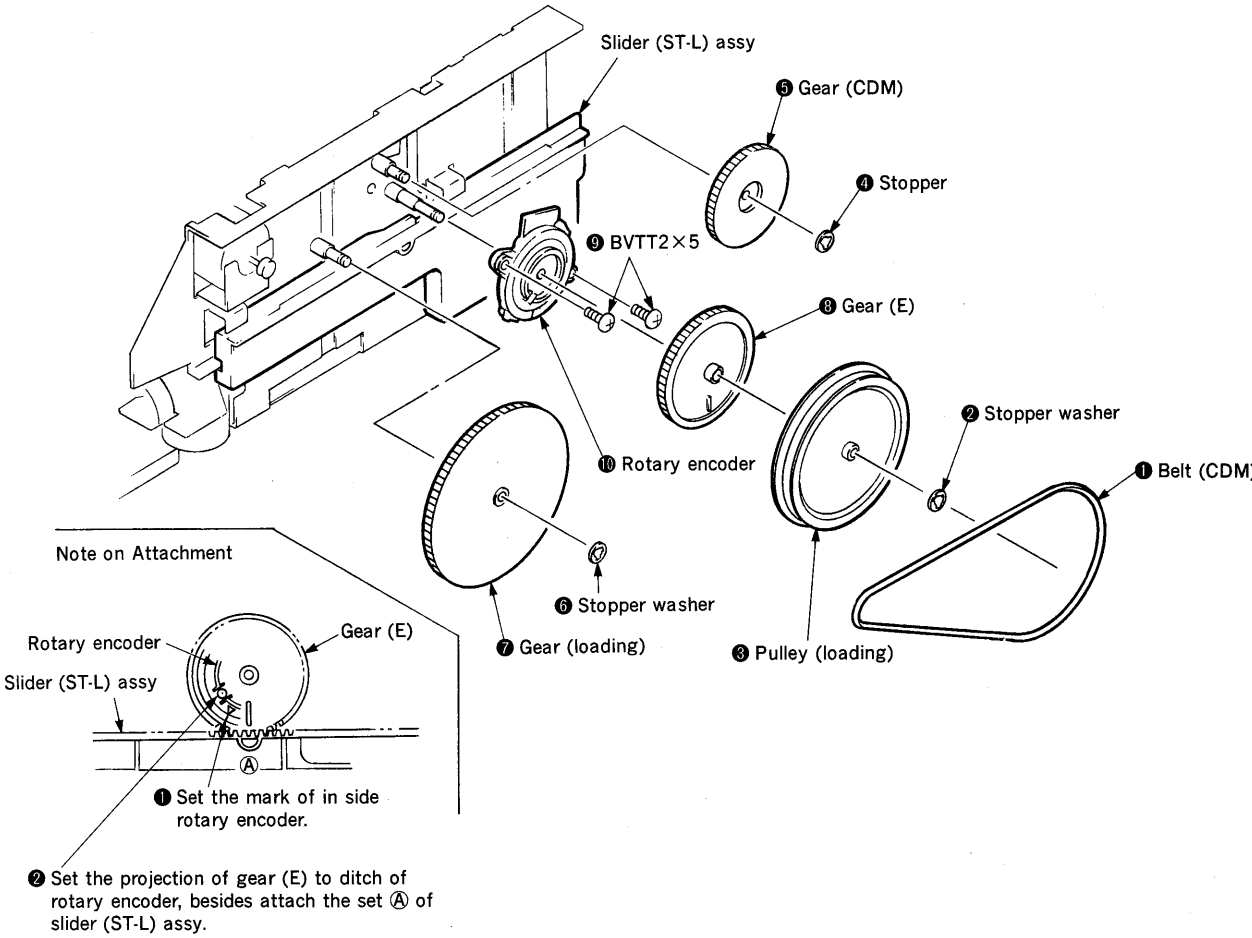


Fig. A

2-3. EXCHANGE OF ROTARY ENCODER

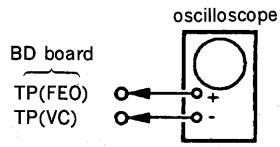

Slider (ST-L) assy
❺ Gear (CDM)
❹ Stopper
❾ BVTT2×5
❽ Gear (E)
❷ Stopper washer
❿ Rotary encoder
❶ Belt (CDM)
❻ Stopper washer
❼ Gear (loading)
❸ Pulley (loading)
Note on Attachment
Rotary encoder
Gear (E)
Slider (ST-L) assy
Ⓐ
❶ Set the mark of in side rotary encoder.
❷ Set the projection of gear (E) to ditch of rotary encoder, besides attach the set Ⓐ of slider (ST-L) assy.

SECTION 3
ELECTRICAL BLOCK CHECKING

Note :

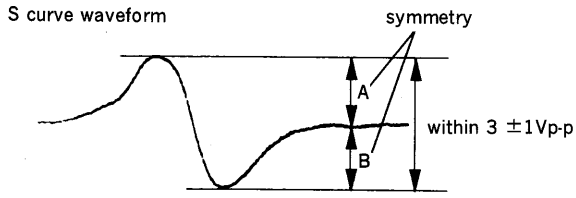
1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within 3±1Vp-p.

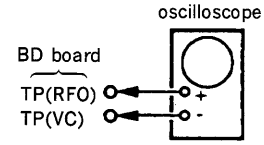


5. After check, remove the lead wire connected in step 2.

Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

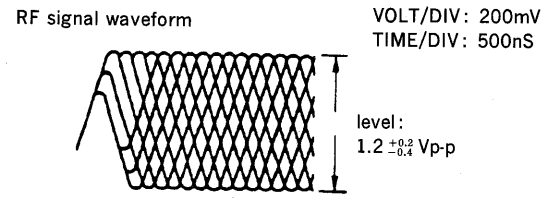


Procedure :

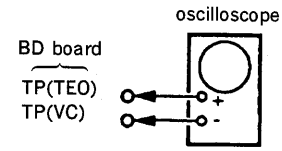
1. Connect oscilloscope to test point TP (RFO) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

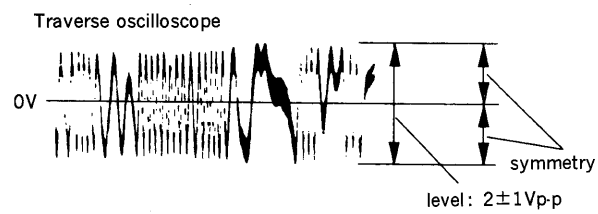


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the osilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

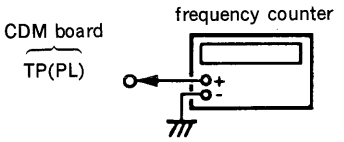


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PL) with lead wire.



2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

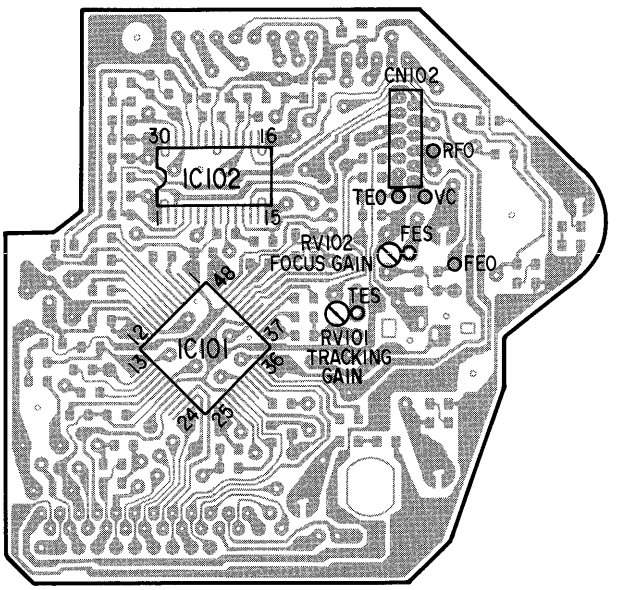
Focus/Tracking Gain

This gain has a margin, so even if it is slightly off.
There is no problem.
Therefore, do not perform, this adjustment.
Please note that it should be fixed to mechanical center position when you moved and do not know original position.

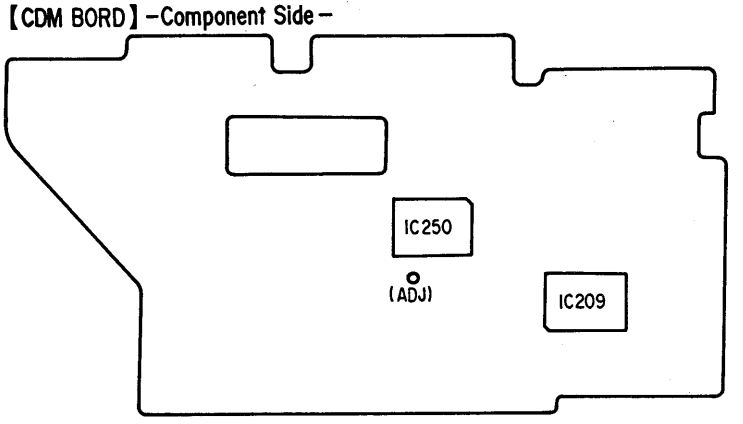
Checking Location :

【BD Board】

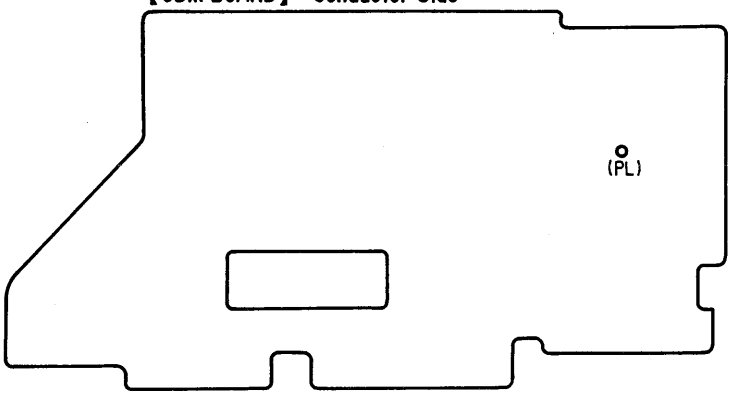
—Conductor Side—



【CDM BORD】-Component Side-



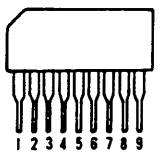
【CDM BOARD】-Conductor Side-



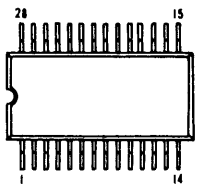
SECTION 4
DIAGRAMS

4-1. SEMICONDUCTOR LEAD LAYOUTS

BA6418N

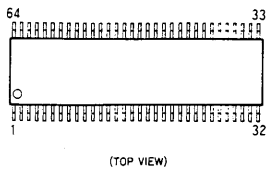


LH5160N-10L



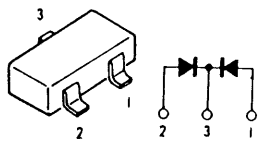
(TOP VIEW)

M66004M4FP

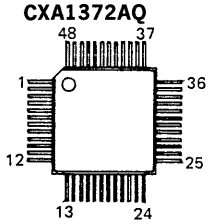


(TOP VIEW)

DCB010

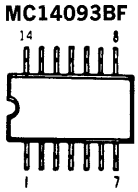


CXA1372AQ



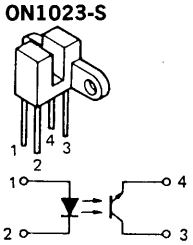
(TOP VIEW)

MC14011BF
MC14093BF

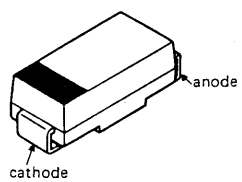


(TOP VIEW)

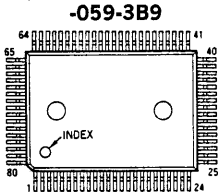
ON1023-S



EC10DS2

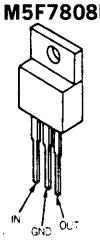


CXD2500AQ
μPD75516GF
-399-3B9
μPD75518GF
-059-3B9

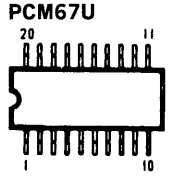


(TOP VIEW)

M5F7807L
M5F7808L

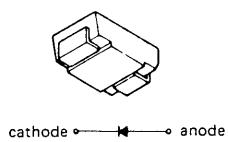


PCM67U

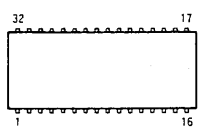


(TOP VIEW)

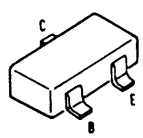
LN1361C
LN1461C



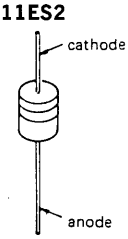
M5218AFP



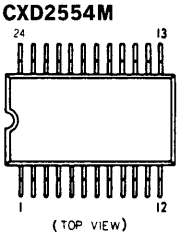
DTC144EK
2SA1602
2SC4154-F



UZP-6.8BB
11EQS04
11ES2

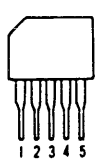


CXD2554M

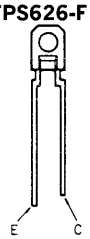


(TOP VIEW)

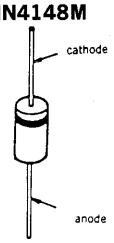
M5293L



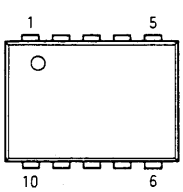
TPS626-F



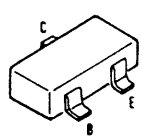
IN4148M



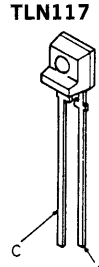
LA5601



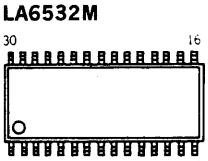
2SB1122-S



TLN117

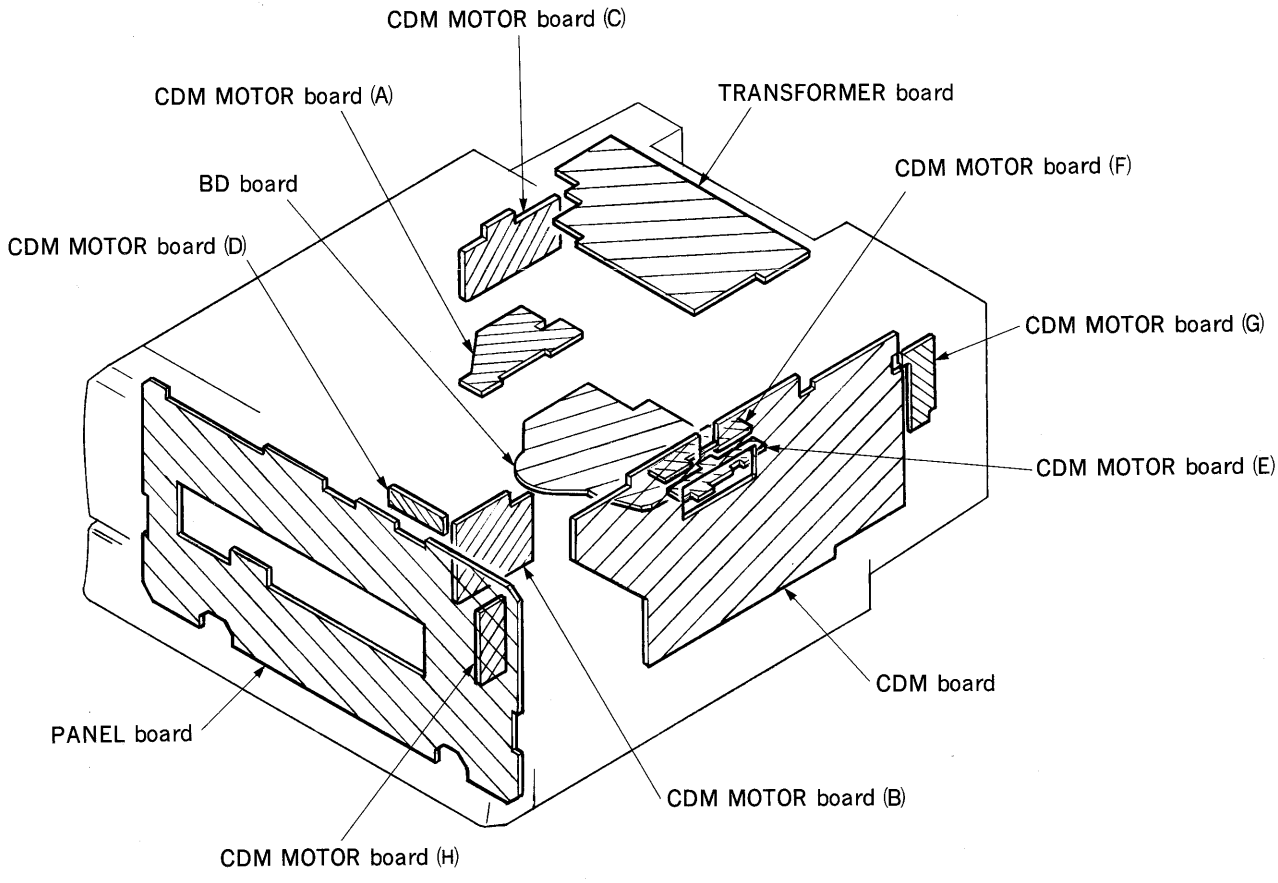


LA6532M



TOP VIEW

4-2. CIRCUIT BOARDS LOCATION



● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	A-9	IC101	B-16
D202	B-9	IC102	B-17
D203	B-6	IC201	C-7
D204	C-9	IC202	B-5
D205	E-13	IC203	B-7
D206	F-14	IC204	B-8
(D206)	A-7	IC206	E-12
D207	F-14	IC207	F-12
D208	F-14	IC208	G-12
D301	G-4	IC209	B-13
D302	F-8	IC210	B-12
D303	F-8	IC211	C-11
D304	F-8	IC212	D-10
D305	G-8	IC213	C-7
D306	G-8	IC214	D-13
D307	G-8	IC215	E-13
D308	G-8	IC216	F-13
D309	G-8	IC250	D-12
D310	G-8	IC301	G-4
D311	G-8	IC302	G-6
D312	G-8	IC401	G-17
D313	G-8	IC601	F-15
D314	H-8		
D315	H-8	Q101	C-16
D316	H-8	Q201	D-14
D317	F-8	Q202	D-14
D318	F-8	Q301	G-4
D319	G-8	Q302	F-8
D320	G-8	Q303	F-9
D321	G-8	Q304	H-3
D322	G-8	Q306	F-7
D323	G-8	Q307	G-7
D324	G-8	Q308	G-7
D325	H-8	Q309	G-7
D326	H-8	Q311	G-7
D327	H-3	Q312	G-5
		Q313	G-5

( ): TRANSFORMER BOARD

Note:
- ○——: parts extracted from the component side.
- ●: Through hole.
- ▒▒: Pattern on the side which is seen.
- ▒▒: Pattern of the rear side.
- ●G: Germany model
- ●IT: Italian model

4-3. PRINTED WIRING BOARDS ● Refer to page 9 for Semiconductor Lead Layouts.

【TRANSFORMER BOARD】

【CDM BOARD】

【BD BOARD】

OPTICAL PICK-UP BLOCK (KSS-240A)

【PANEL BOARD】

FL301 FLUORESCENT INDICATOR TUBE

【CDM MOTOR BOARD(A)】

【CDM MOTOR BOARD(B)】

【CDM MOTOR BOARD(C)】

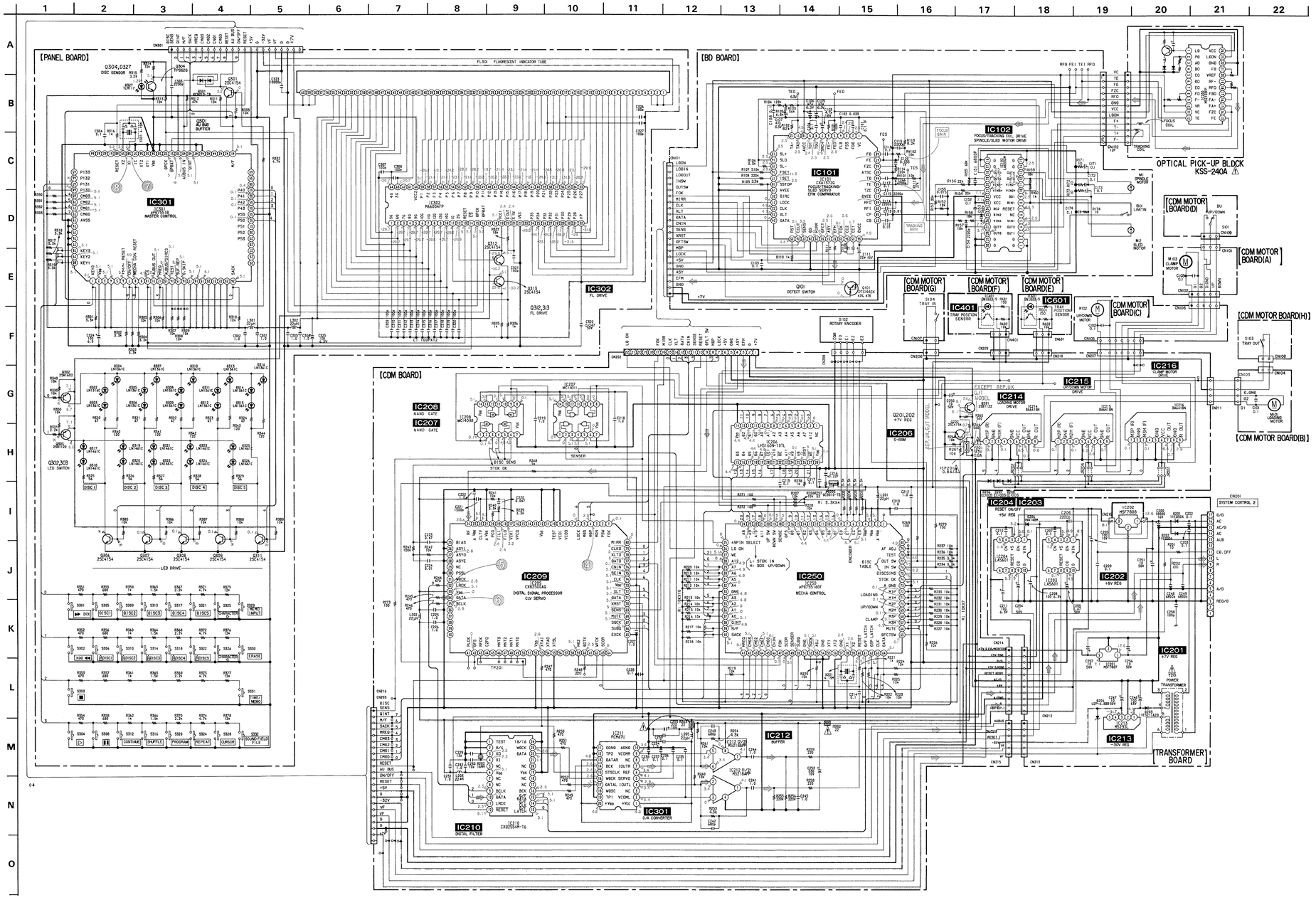
【CDM MOTOR BOARD(D)】

【CDM MOTOR BOARD(E)】

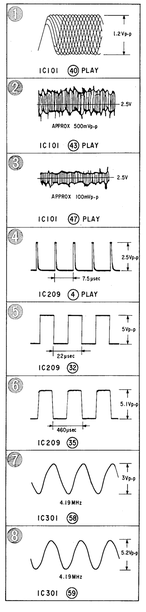
【CDM MOTOR BOARD(F)】

【CDM MOTOR BOARD(G)】

【CDM MOTOR BOARD(H)】



• Waveforms



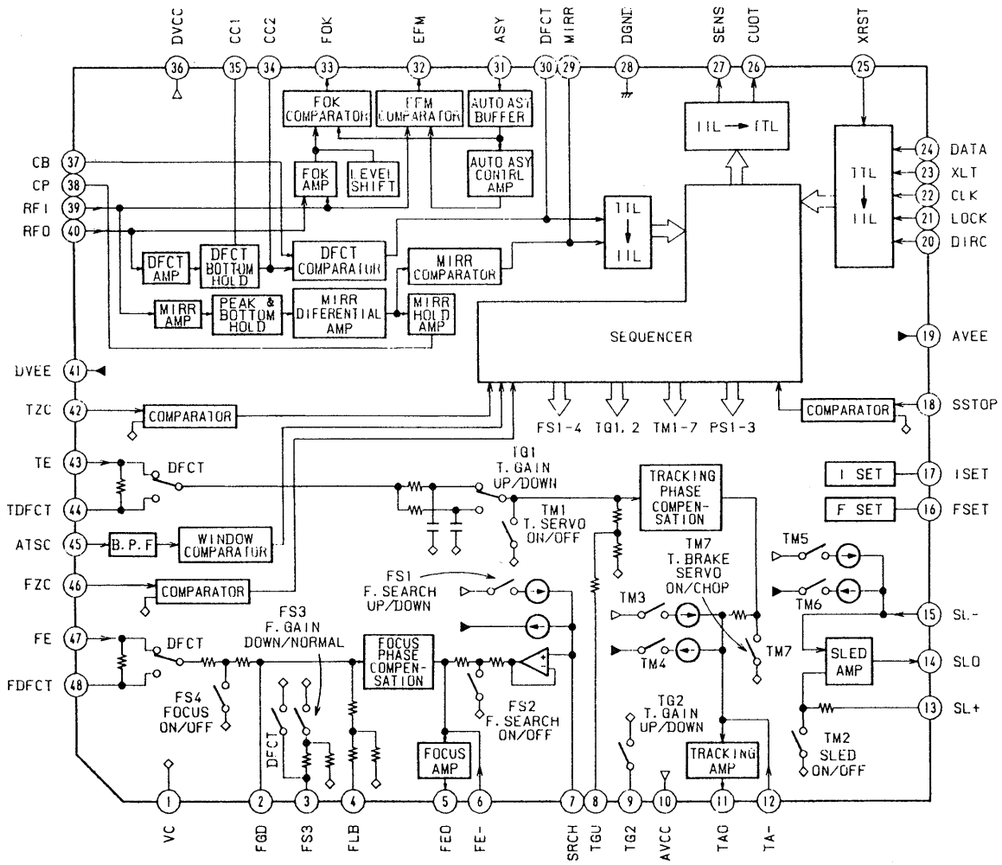
Note:
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.

Note:	Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

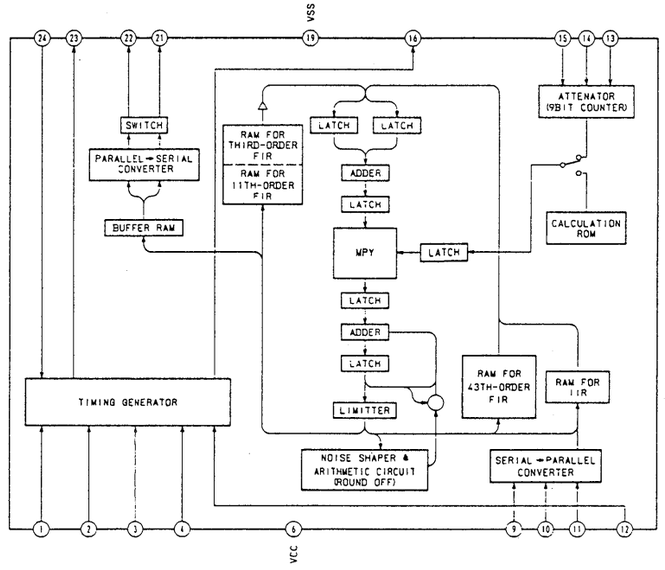
- : B+ Line
- : B− Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions. no mark : STOP
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- **Signal path.**
  : CD
- G: Germany model
- IT: Italian model

• IC Block Diagrams

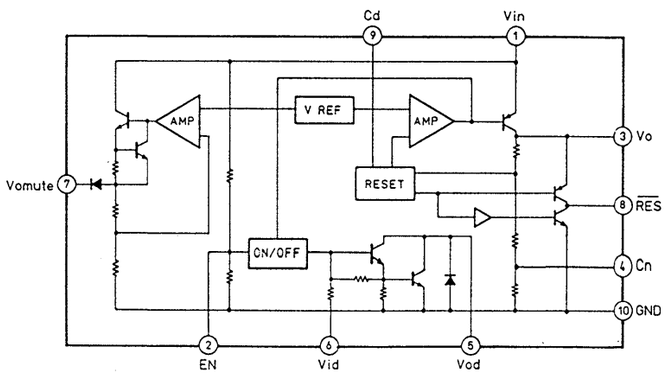
IC101 CXA1372Q



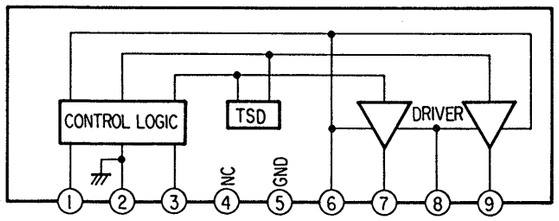
IC210 CXD2554M



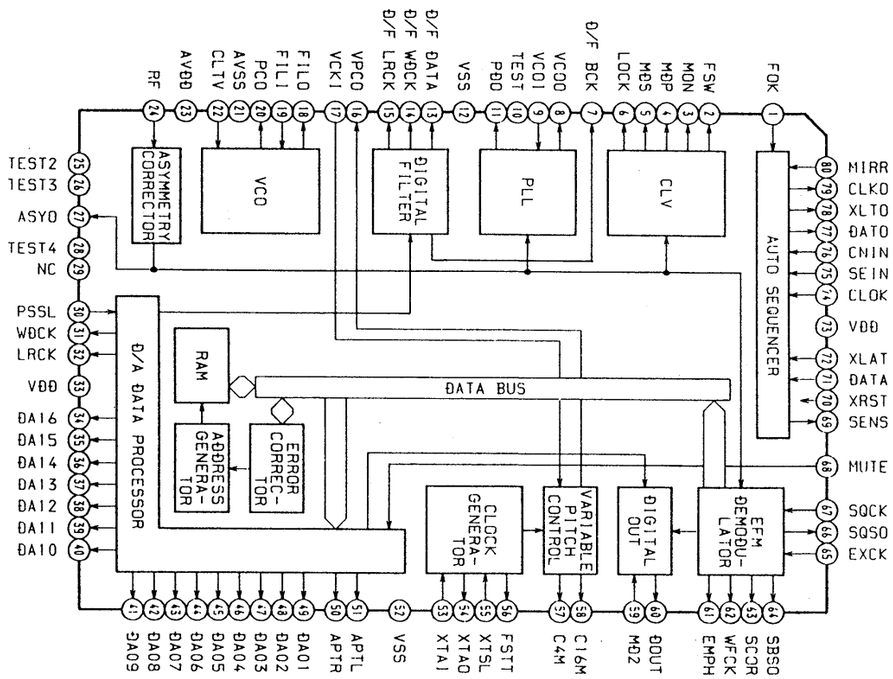
IC203, 204 LA5601



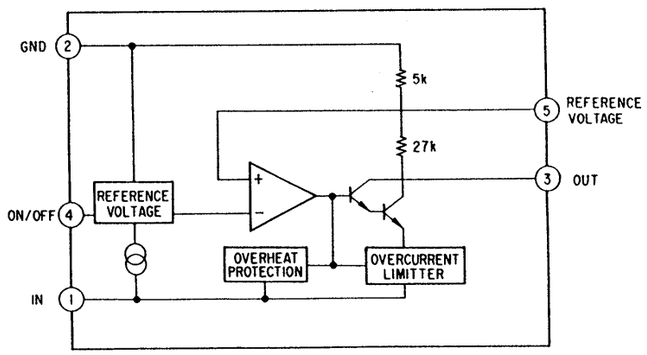
IC214-216 BA6418N



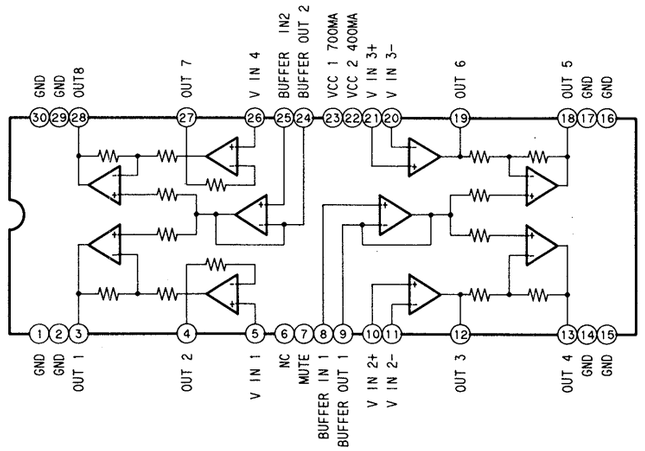
IC209 CXD2500AQ



IC213 M5293L



IC102 LA6532M



SECTION 5
EXPLODED VIEWS

NOTE:

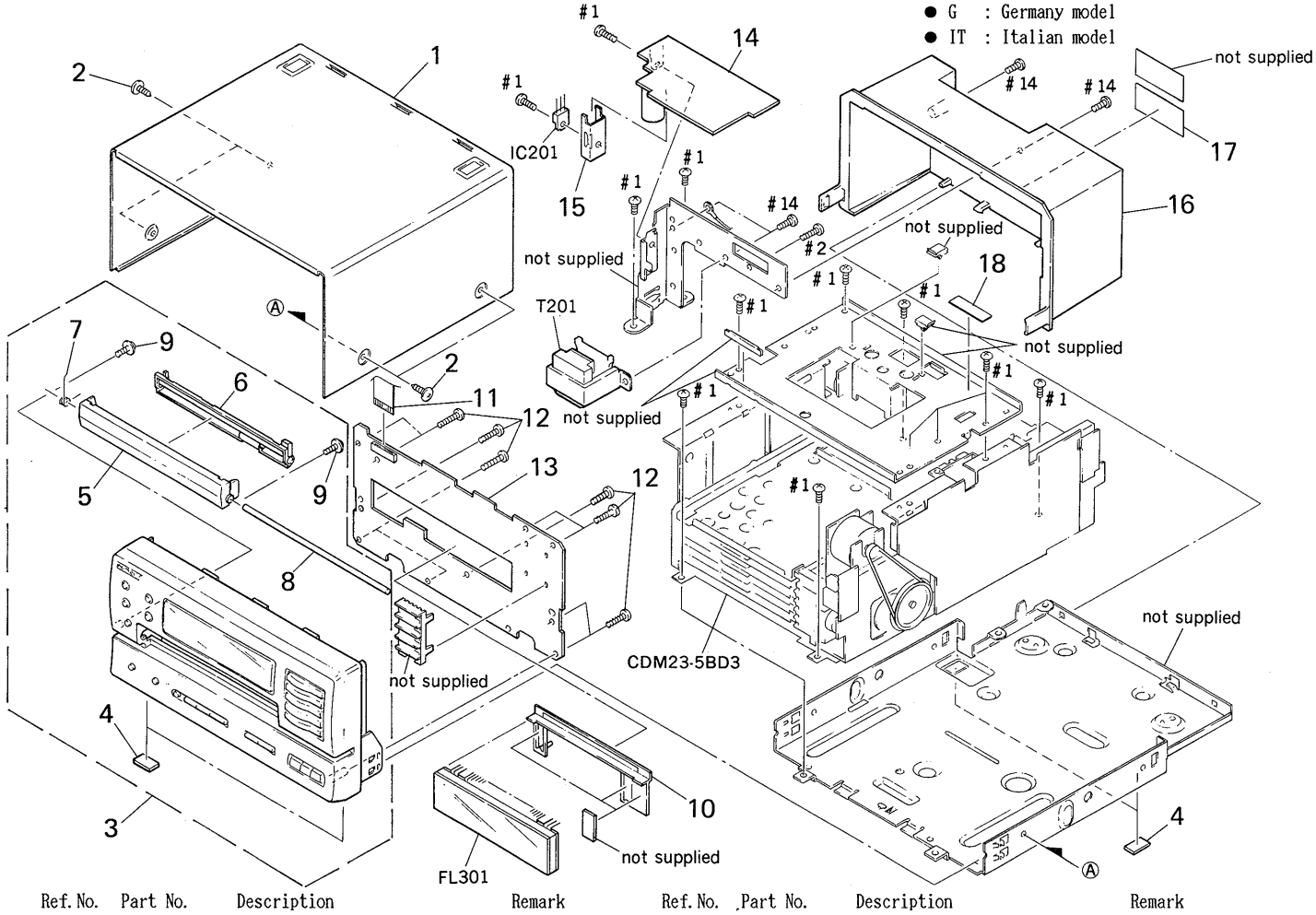
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE)... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

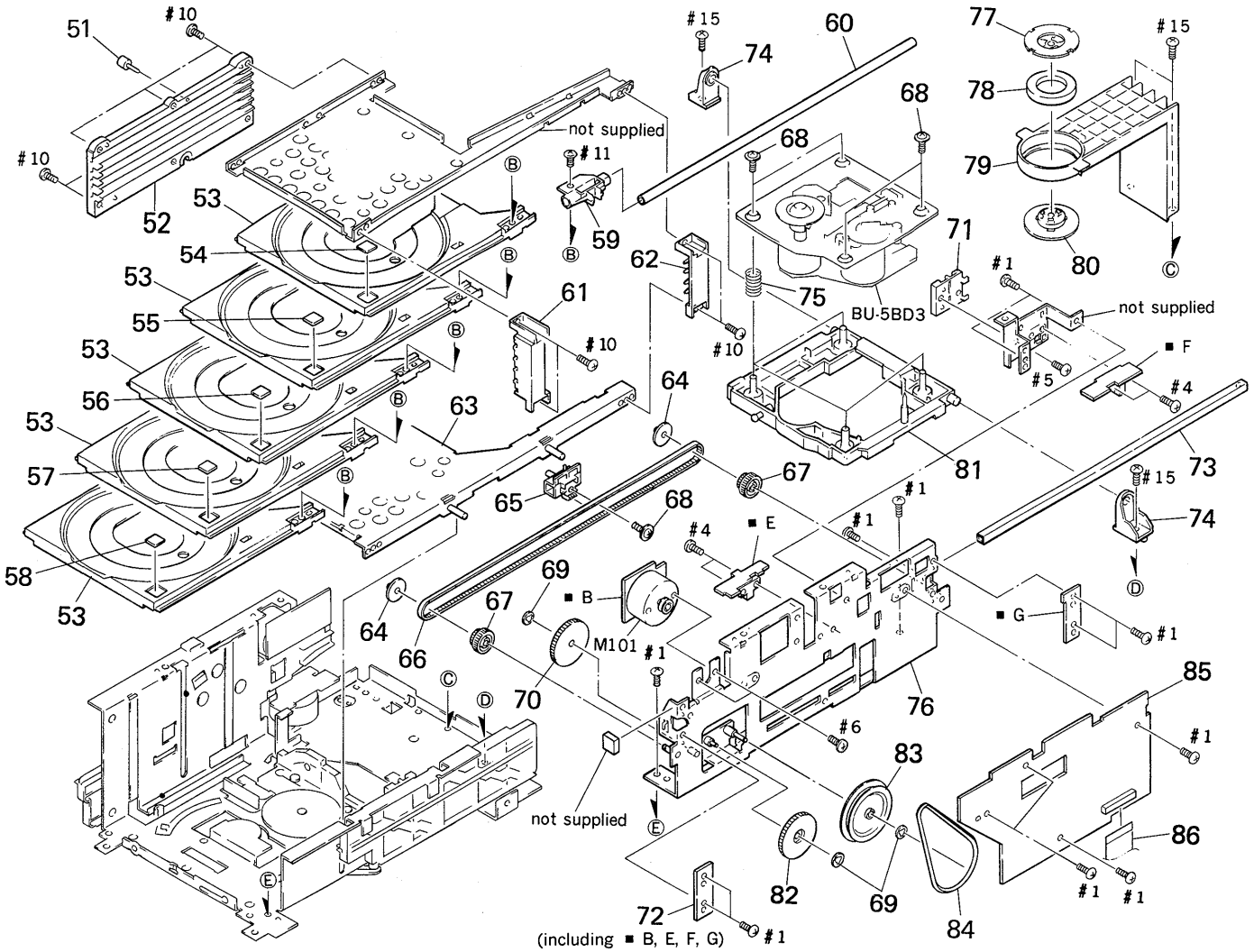
- CND : Canadian model
- G : Germany model
- IT : Italian model

5-1. CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-944-522-42	CASE (K211522)	
2	3-363-099-01	SCREW (CASE 3 TP2)	
3	X-4942-946-1	PANEL ASSY, FRONT	
4	4-930-336-21	FOOT (FELT)	
5	4-954-694-01	DOOR (A)	
6	4-954-698-01	DOOR (B)	
7	4-954-693-01	SPRING (DOOR)	
8	4-954-695-01	SHAFT (DOOR)	
9	4-933-134-01	SCREW (+PTPWH M2.6X6)	
* 10	4-954-701-01	HOLDER (FL TUBE)	
11	1-696-633-11	WIRE (FLAT TYPE)	
12	4-951-620-01	SCREW (2.6X8), +BVTP	
* 13	A-4649-455-A	PANEL BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
* 13	A-4649-462-A	PANEL BOARD, COMPLETE (G)	
* 13	A-4649-465-A	PANEL BOARD, COMPLETE (AEP, UK, IT)	
* 14	A-4649-456-A	TRANSFORMER BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
* 14	A-4649-461-A	TRANSFORMER BOARD, COMPLETE (G)	
* 14	A-4649-464-A	TRANSFORMER BOARD, COMPLETE (AEP, UK, IT)	
* 15	3-309-144-21	HEAT SINK	
* 16	4-954-699-01	PANEL, BACK	
* 17	4-941-548-01	LABEL, CLASS 1 (EXCEPT US, CND)	
* 18	3-703-044-26	LABEL, CAUTION (CND)	
FL301	1-519-738-11	INDICATOR TUBE, FLUORESCENT	
IC201	8-759-071-48	IC M5F7807L	
⚠T201	1-450-984-11	TRANSFORMER, POWER	

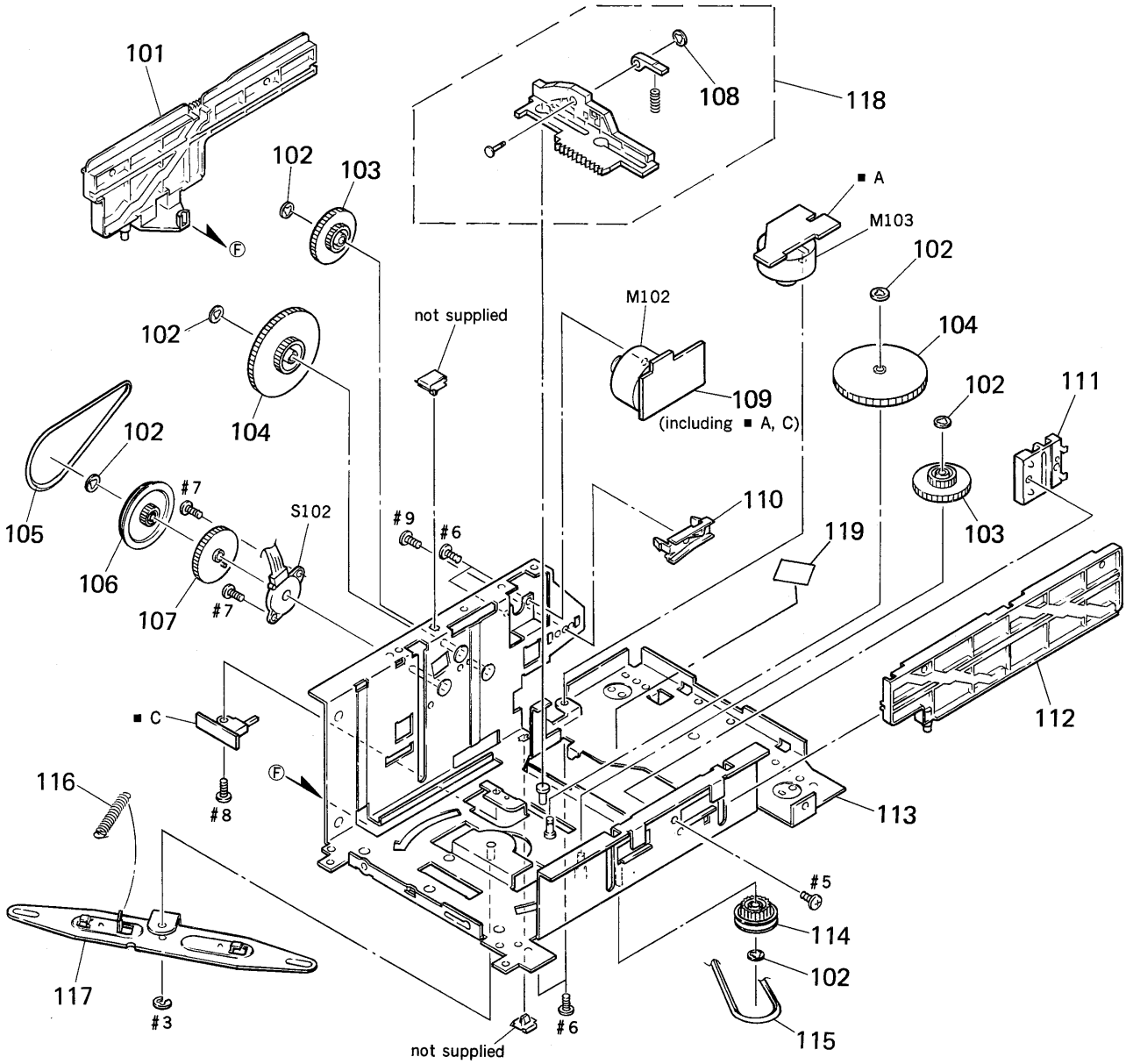
5-2. CD MECHANISM NECTION (1) (CDM23-5BD3)



Ref. No.	Part No.	Description	Remark
51	4-954-649-01	SHAFT (ST-L)	
52	4-954-644-01	BRACKET (STOCKER L)	
53	4-954-638-01	TABLE, DISK	
54	4-954-651-01	EMBLEM (TABLE)	
55	4-954-651-11	EMBLEM (TABLE)	
56	4-954-651-21	EMBLEM (TABLE)	
57	4-954-651-31	EMBLEM (TABLE)	
58	4-954-651-41	EMBLEM (TABLE)	
59	4-954-639-01	GUIDE (TB)	
60	4-954-648-01	SHAFT (TABLE GUIDE)	
61	4-954-645-01	GUIDE (ST-RF)	
62	4-954-646-01	GUIDE (ST-RR)	
* 63	X-4942-943-1	BRACKET (ST-B) ASSY	
64	4-954-628-01	FLANGE (PULLEY)	
65	4-954-630-01	SLIDER (TB)	
66	4-954-634-01	BELT (SL)	
67	4-954-629-01	PULLEY (SL)	
68	4-933-134-01	SCREW (+PTPWH M2.6X6)	
69	3-669-595-00	WASHER (2), STOPPER	
70	4-954-627-01	GEAR (SL)	

Ref. No.	Part No.	Description	Remark
* 71	4-954-621-01	STOPPER (TB)	
* 72	1-645-607-11	CDM MOTOR BOARD	
* 73	4-954-631-01	SHAFT (SL GUIDE)	
* 74	4-954-623-01	FULCRUM (BU)	
75	4-948-503-01	SPRING (BU), COMPRESSION	
* 76	X-4942-941-1	BRACKET (SL-A) ASSY	
77	4-929-762-01	YOKE, CHUCKING	
78	1-452-676-11	MAGNET	
79	4-954-650-01	HOLDER (MG)	
80	4-955-230-01	PULLEY (CHECKING)	
* 81	X-4942-942-1	HOLDER (BU) ASSY	
82	4-954-625-01	GEAR (CDM)	
83	3-372-516-01	PULLEY (LOADING)	
84	4-954-624-01	BELT (CDM)	
* 85	A-4649-352-A	CDM BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
* 85	A-4649-463-A	CDM BOARD, COMPLETE (G)	
* 85	A-4649-466-A	CDM BOARD, COMPLETE (AEP, UK, IT)	
86	1-696-634-11	WIRE (FLAT TYPE)	
M101	A-4660-232-A	MOTOR (CDM) ASSY	

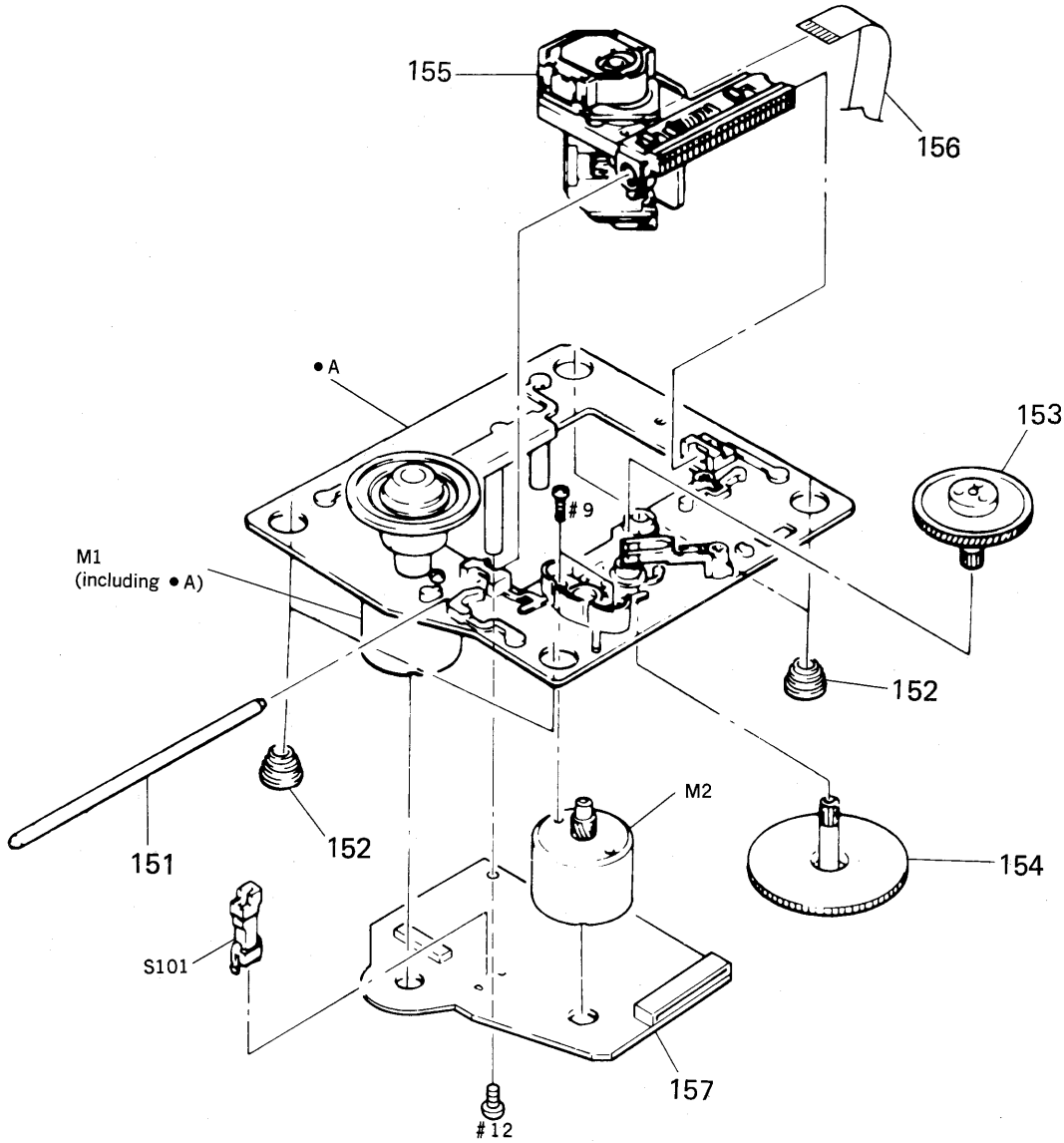
5-3. CD MECHANISM SECTION (2) (CDM23-5BD3)



Ref. No.	Part No.	Description	Remark
101	X-4942-939-1	SLIDER (ST-L) ASSY	
102	3-669-595-00	WASHER (2), STOPPER	
103	4-954-625-01	GEAR (CDM)	
104	3-372-517-01	GEAR (LOADING)	
105	4-954-624-01	BELT (CDM)	
106	3-372-516-01	PULLEY (LOADING)	
107	4-954-636-01	GEAR (E)	
108	3-681-678-00	WASHER, SLIT	
* 109	1-645-607-11	CDM MOTOR BOARD	
* 110	4-954-633-01	GUIDE (TB-LR)	
* 111	4-954-621-01	STOPPER (TB)	

Ref. No.	Part No.	Description	Remark
112	X-4942-940-1	SLIDER (ST-R) ASSY	
* 113	X-4942-937-1	CHASSIS (CDM) ASSY	
114	4-954-637-01	PULLEY (BU)	
115	4-954-635-01	BELT (BU)	
116	4-955-168-01	SPRING, TENSION	
* 117	4-954-632-01	LEVER (JOINT)	
118	A-4660-167-A	SLIDER (BU CAM) ASSY	
* 119	4-928-473-01	INSULATOR	
M102	A-4460-232-A	MOTOR (CDM) ASSY	
M103	A-4460-232-A	MOTOR (CDM) ASSY	
S102	1-466-819-11	ENCORDER, ROTARY	

5-4. OPTICAL PICK-UP SECTION (BU-5BD3)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
151	4-917-565-01	SHAFT, SLED	
152	4-951-940-01	INSULATOR (BU)	
153	4-917-567-01	GEAR (M)	
154	4-917-564-01	GEAR (P), FLATNESS	
⚠155	8-848-144-11	DEVICE, OPTICAL KSS-240A	
156	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
* 157	A-4617-371-A	BD BOARD, COMPLETE	
M1	X-4917-523-3	MOTOR ASSY, SPINDLE	
M2	X-4917-504-1	MOTOR ASSY, SLED	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

SECTION 6
ELECTRICAL PARTS LIST

BD

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA . . : μA. . uPA. . : μPA. .
  uPB. . : μPB. . uPC. . : μPC. . uPD. . : μPD. .
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- CND : Canadian model
- G : Germany model
- IT : Italian model

Ref. No.	Part No.	Description			Remark
*	A-4617-371-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C102	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C103	1-126-163-11	ELECT	4.7uF	20%	50V
C104	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C105	1-126-154-11	ELECT	47uF	20%	6.3V
C106	1-126-154-11	ELECT	47uF	20%	6.3V
C107	1-126-154-11	ELECT	47uF	20%	6.3V
C108	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C109	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C111	1-131-367-00	TANTALUM	22uF	10%	20V
C112	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C113	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C114	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C115	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C117	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C118	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C119	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C120	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C151	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C152	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C153	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C154	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C155	1-163-023-00	CERAMIC CHIP	0.015uF	5%	50V
C171	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C172	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C173	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C174	1-163-038-00	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
		< IC >			
IC101	8-752-053-73	IC CXA1372AQ			
IC102	8-759-822-36	IC LA6532M			
		< JUMPER RESISTOR >			
J101	1-216-295-00	METAL CHIP	0	5%	1/10W
J102	1-216-295-00	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q101	8-729-901-01	TRANSISTOR DTC144EK			
		< RESISTOR >			
R101	1-216-097-00	METAL CHIP	100K	5%	1/10W
R102	1-216-095-00	METAL CHIP	82K	5%	1/10W
R103	1-216-091-00	METAL CHIP	56K	5%	1/10W
R104	1-216-099-00	METAL CHIP	120K	5%	1/10W
R105	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R108	1-216-105-00	METAL CHIP	220K	5%	1/10W
R109	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R110	1-216-049-00	METAL CHIP	1K	5%	1/10W
R111	1-216-049-00	METAL CHIP	1K	5%	1/10W
R112	1-216-083-00	METAL CHIP	27K	5%	1/10W
R113	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R114	1-216-105-00	METAL CHIP	220K	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R153	1-216-085-00	METAL CHIP	33K	5%	1/10W
R154	1-216-085-00	METAL CHIP	33K	5%	1/10W
R155	1-216-093-00	METAL CHIP	68K	5%	1/10W
R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
R157	1-216-079-00	METAL CHIP	18K	5%	1/10W
R158	1-216-079-00	METAL CHIP	18K	5%	1/10W
R159	1-216-079-00	METAL CHIP	18K	5%	1/10W
R160	1-216-049-00	METAL CHIP	1K	5%	1/10W
R171	1-216-001-00	METAL CHIP	10	5%	1/10W
R172	1-216-001-00	METAL CHIP	10	5%	1/10W
R173	1-216-001-00	METAL CHIP	10	5%	1/10W
R174	1-216-001-00	METAL CHIP	10	5%	1/10W

BD CDM

Ref. No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV101	1-238-600-11	RES, ADJ, CARBON 10K			
RV101	1-241-630-11	RES, ADJ, CARBON 10K			
RV102	1-238-600-11	RES, ADJ, CARBON 10K			
RV102	1-241-630-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)			
**********					
*	A-4649-352-A	CDM BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)			
*	A-4649-463-A	CDM BOARD, COMPLETE (G)			
*	A-4649-466-A	CDM BOARD, COMPLETE (AEP, UK, IT)			
		**********			
*	4-942-204-01	PLATE, GROUND			
		< CAPACITOR >			
C212	1-164-346-11	CERAMIC CHIP	1uF		16V
C213	1-164-346-11	CERAMIC CHIP	1uF		16V
C214	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C215	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C216	1-125-486-11	DOUBLE LAYERS	0.22F		5.5V
C217	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C218	1-164-346-11	CERAMIC CHIP	1uF		16V
C219	1-164-346-11	CERAMIC CHIP	1uF		16V
C220	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C221	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C222	1-164-346-11	CERAMIC CHIP	1uF		16V
C223	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C224	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C225	1-164-346-11	CERAMIC CHIP	1uF		16V
C226	1-164-346-11	CERAMIC CHIP	1uF		16V
C227	1-164-346-11	CERAMIC CHIP	1uF		16V
C228	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C229	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C230	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C231	1-164-346-11	CERAMIC CHIP	1uF		16V
C232	1-164-346-11	CERAMIC CHIP	1uF		16V
C233	1-164-346-11	CERAMIC CHIP	1uF		16V
C234	1-164-346-11	CERAMIC CHIP	1uF		16V
C235	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C236	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C237	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C238	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C241	1-164-346-11	CERAMIC CHIP	1uF		16V
C242	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C243	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C244	1-164-346-11	CERAMIC CHIP	1uF		16V
C245	1-164-346-11	CERAMIC CHIP	1uF		16V
C250	1-126-405-11	ELECT CHIP	10uF	20%	50V
C252	1-126-924-11	ELECT	330uF	20%	10V
C253	1-126-923-11	ELECT	220uF	20%	10V
		< CONNECTOR >			
* CN202	1-695-629-11	CONNECTOR, FFC/FPC (ZIF) 22P			
CN203	1-580-891-11	SOCKET, CONNECTOR (SMT) 22P			
* CN206	1-568-951-11	PIN, CONNECTOR 2P			
* CN208	1-573-275-11	PIN, CONNECTOR 5P			
CN209	1-506-468-11	PIN, CONNECTOR 3P			
CN210	1-506-468-11	PIN, CONNECTOR 3P			
CN211	1-506-469-11	PIN, CONNECTOR 4P			
		< DIODE >			
D205	8-719-990-39	DIODE	DCB010		
D206	8-719-210-33	DIODE	EC10DS2		
D207	8-719-210-33	DIODE	EC10DS2		
D208	8-719-210-33	DIODE	EC10DS2		
		< FUSE >			
⚠F201	1-532-775-11	FUSE, MICRO (SECONDARY) 125V, 0.8A (EXCEPT AEP, UK, G, IT)			
		< IC >			
IC206	8-759-512-81	IC	LH5160N-10L		
IC207	8-759-008-79	IC	MC14011BF		
IC208	8-759-009-21	IC	MC14093BF		
IC209	8-752-337-26	IC	CXD2500AQ		
IC210	8-752-337-10	IC	CXD2554M		
IC211	8-759-506-63	IC	PCM67U		
IC212	8-759-636-55	IC	M5218AFP		
IC214	8-759-501-73	IC	BA6418N		
IC215	8-759-501-73	IC	BA6418N		
IC216	8-759-501-73	IC	BA6418N		
IC250	8-759-076-35	IC	uPD75516GF-399-3B9		
		< IC LINK >			
⚠ICP201	1-532-838-21	LINK, IC 0.3A (AEP, UK, G, IT)			
		< JUMPER RESISTOR >			
JR202	1-216-295-00	METAL CHIP	0	5%	1/10W
JR204	1-216-295-00	METAL CHIP	0	5%	1/10W
JR207	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L201	1-410-385-11	INDUCTOR CHIP	22uH		
L202	1-410-385-11	INDUCTOR CHIP	22uH		

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Ref. No.	Part No.	Description			Remark
L203	1-410-385-11	INDUCTOR CHIP	22uH		
L205	1-410-385-11	INDUCTOR CHIP	22uH		
		< TRANSISTOR >			
Q201	8-729-804-41	TRANSISTOR	2SB1122-S		
Q202	8-729-602-21	TRANSISTOR	2SC4154-F		
		< RESISTOR >			
R202	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R203	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R204	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R205	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R206	1-216-073-00	METAL CHIP	10K	5%	1/10W
R207	1-216-073-00	METAL CHIP	10K	5%	1/10W
R208	1-216-073-00	METAL CHIP	10K	5%	1/10W
R209	1-216-073-00	METAL CHIP	10K	5%	1/10W
R210	1-216-073-00	METAL CHIP	10K	5%	1/10W
R211	1-216-073-00	METAL CHIP	10K	5%	1/10W
R212	1-216-073-00	METAL CHIP	10K	5%	1/10W
R213	1-216-073-00	METAL CHIP	10K	5%	1/10W
R214	1-216-073-00	METAL CHIP	10K	5%	1/10W
R215	1-216-073-00	METAL CHIP	10K	5%	1/10W
R216	1-216-073-00	METAL CHIP	10K	5%	1/10W
R217	1-216-073-00	METAL CHIP	10K	5%	1/10W
R218	1-216-073-00	METAL CHIP	10K	5%	1/10W
R219	1-216-073-00	METAL CHIP	10K	5%	1/10W
R220	1-216-073-00	METAL CHIP	10K	5%	1/10W
R221	1-216-049-00	METAL CHIP	1K	5%	1/10W
R222	1-216-073-00	METAL CHIP	10K	5%	1/10W
R223	1-216-073-00	METAL CHIP	10K	5%	1/10W
R224	1-216-073-00	METAL CHIP	10K	5%	1/10W
R225	1-216-073-00	METAL CHIP	10K	5%	1/10W
R226	1-216-073-00	METAL CHIP	10K	5%	1/10W
R227	1-216-073-00	METAL CHIP	10K	5%	1/10W
R228	1-216-073-00	METAL CHIP	10K	5%	1/10W
R229	1-216-073-00	METAL CHIP	10K	5%	1/10W
R230	1-216-073-00	METAL CHIP	10K	5%	1/10W
R231	1-216-073-00	METAL CHIP	10K	5%	1/10W
R232	1-216-073-00	METAL CHIP	10K	5%	1/10W
R233	1-216-073-00	METAL CHIP	10K	5%	1/10W
R234	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R235	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R236	1-216-073-00	METAL CHIP	10K	5%	1/10W
R237	1-216-073-00	METAL CHIP	10K	5%	1/10W
R238	1-216-049-00	METAL CHIP	1K	5%	1/10W
R239	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R240	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R241	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R242	1-216-073-00	METAL CHIP	10K	5%	1/10W
R243	1-216-097-00	METAL CHIP	100K	5%	1/10W
R244	1-216-041-00	METAL CHIP	470	5%	1/10W
R245	1-216-041-00	METAL CHIP	470	5%	1/10W
R246	1-216-041-00	METAL CHIP	470	5%	1/10W
R247	1-216-041-00	METAL CHIP	470	5%	1/10W
R248	1-216-033-00	METAL CHIP	220	5%	1/10W
R249	1-216-041-00	METAL CHIP	470	5%	1/10W
R250	1-216-041-00	METAL CHIP	470	5%	1/10W
R251	1-216-041-00	METAL CHIP	470	5%	1/10W
R252	1-216-041-00	METAL CHIP	470	5%	1/10W
R253	1-216-064-00	METAL CHIP	4.3K	5%	1/10W
R254	1-216-064-00	METAL CHIP	4.3K	5%	1/10W
R255	1-216-105-00	METAL CHIP	220K	5%	1/10W
R256	1-216-105-00	METAL CHIP	220K	5%	1/10W
R257	1-216-013-00	METAL CHIP	33	5%	1/10W
R258	1-216-033-00	METAL CHIP	220	5%	1/10W
R259	1-216-033-00	METAL CHIP	220	5%	1/10W
R260	1-216-073-00	METAL CHIP	10K	5%	1/10W
R261	1-216-073-00	METAL CHIP	10K	5%	1/10W
⚠R262	1-249-397-11	CARBON	22	5%	1/4W F
⚠R263	1-249-397-11	CARBON	22	5%	1/4W F
R264	1-216-043-00	METAL CHIP	560	5%	1/10W
R265	1-216-043-00	METAL CHIP	560	5%	1/10W
R266	1-216-073-00	METAL CHIP	10K	5%	1/10W
R267	1-216-073-00	METAL CHIP	10K	5%	1/10W
R268	1-216-049-00	METAL CHIP	1K	5%	1/10W
R269	1-216-025-00	METAL CHIP	100	5%	1/10W
R270	1-216-025-00	METAL CHIP	100	5%	1/10W
R271	1-216-025-00	METAL CHIP	100	5%	1/10W
R272	1-216-025-00	METAL CHIP	100	5%	1/10W
R273	1-216-025-00	METAL CHIP	100	5%	1/10W
		< TEST PIN >			
* TP201	1-695-630-11	PIN, CONNECTOR 6P			
		< VIBRATOR >			
X201	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)			
X202	1-567-908-11	VIBRATOR, CRYSTAL (16MHz)			

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*	1-645-607-11	CDM MOTOR BOARD			
		**********			
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-164-159-11	CERAMIC	0.1uF		50V
C103	1-164-159-11	CERAMIC	0.1uF		50V

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CDM MOTOR | PANEL

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
* CN105	1-568-934-11	PIN, CONNECTOR 7P			
* CN106	1-568-954-11	PIN, CONNECTOR 5P			
		< IC >			
IC401	8-759-071-52	IC ON1023-S			
IC601	8-759-071-52	IC ON1023-S			
		< RESISTOR >			
⚠R401	1-249-407-11	CARBON	150	5% 1/4W F	
R402	1-249-429-11	CARBON	10K	5% 1/4W	
⚠R601	1-249-407-11	CARBON	150	5% 1/4W F	
R602	1-249-429-11	CARBON	10K	5% 1/4W	
		< SWITCH >			
S101	1-571-300-21	SWITCH, ROTARY (BU UP/DOWN)			
S103	1-692-080-11	SWITCH, PUSH (1 KEY) (TRAY OUT)			
S104	1-692-080-11	SWITCH, PUSH (1 KEY) (TRAY IN)			
**********					
*	A-4649-455-A	PANEL BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)			
*	A-4649-462-A	PANEL BOARD, COMPLETE (G)			
*	A-4649-465-A	PANEL BOARD, COMPLETE (AEP, UK, IT)			
		**********			
*	4-954-701-01	HOLDER (FL TUBE)			
		< CAPACITOR >			
C301	1-164-346-11	CERAMIC CHIP	1uF	16V	
C302	1-164-346-11	CERAMIC CHIP	1uF	16V	
C303	1-164-161-11	CERAMIC CHIP	0.0022uF	10% 100V	
C304	1-164-004-11	CERAMIC CHIP	0.1uF	10% 25V	
C305	1-164-346-11	CERAMIC CHIP	1uF	16V	
C306	1-164-346-11	CERAMIC CHIP	1uF	16V	
C307	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C308	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C309	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C310	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C311	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C312	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C313	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C314	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C315	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C316	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C317	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C318	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C319	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C320	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C321	1-163-251-11	CERAMIC CHIP	100PF	5% 50V	
C322	1-163-035-00	CERAMIC CHIP	0.047uF	10% 25V	
C323	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C324	1-126-206-11	ELECT CHIP	100uF	20% 6.3V	
C325	1-126-206-11	ELECT CHIP	100uF	20% 6.3V	
C326	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C327	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
		< CONNECTOR >			
CN301	1-580-874-11	SOCKET, CONNECTOR (SMT) 22P			
		< DIODE >			
D301	8-719-990-39	DIODE DCB010			
D302	8-719-027-34	DIODE LN1361C (DISC 1)			
D303	8-719-027-34	DIODE LN1361C (DISC 1)			
D304	8-719-027-34	DIODE LN1361C (DISC 1)			
D305	8-719-027-34	DIODE LN1361C (DISC 2)			
D306	8-719-027-34	DIODE LN1361C (DISC 2)			
D307	8-719-027-34	DIODE LN1361C (DISC 2)			
D308	8-719-027-34	DIODE LN1361C (DISC 3)			
D309	8-719-027-34	DIODE LN1361C (DISC 3)			
D310	8-719-027-34	DIODE LN1361C (DISC 3)			
D311	8-719-027-34	DIODE LN1361C (DISC 4)			
D312	8-719-027-34	DIODE LN1361C (DISC 4)			
D313	8-719-027-34	DIODE LN1361C (DISC 4)			
D314	8-719-027-34	DIODE LN1361C (DISC 5)			
D315	8-719-027-34	DIODE LN1361C (DISC 5)			
D316	8-719-027-34	DIODE LN1361C (DISC 5)			
D317	8-719-023-03	DIODE LN1461C (DISC 1)			
D318	8-719-023-03	DIODE LN1461C (DISC 1)			
D319	8-719-023-03	DIODE LN1461C (DISC 2)			
D320	8-719-023-03	DIODE LN1461C (DISC 2)			
D321	8-719-023-03	DIODE LN1461C (DISC 3)			
D322	8-719-023-03	DIODE LN1461C (DISC 3)			
D323	8-719-023-03	DIODE LN1461C (DISC 4)			
D324	8-719-023-03	DIODE LN1461C (DISC 4)			
D325	8-719-023-03	DIODE LN1461C (DISC 5)			
D326	8-719-023-03	DIODE LN1461C (DISC 5)			
D327	8-719-029-95	DIODE TLN117			
		< FLUORESCENT INDICATOR >			
FL301	1-519-738-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC301	8-759-077-15	IC uPD75518GF-059-3B9			
IC302	8-759-077-16	IC M66004M4FP			

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
		< COIL >			
L301	1-410-385-11	INDUCTOR CHIP	22uH		
L302	1-410-385-11	INDUCTOR CHIP	22uH		
		< TRANSISTOR >			
Q301	8-729-602-21	TRANSISTOR	2SC4154-F		
Q302	8-729-602-36	TRANSISTOR	2SA1602		
Q303	8-729-804-41	TRANSISTOR	2SB1122-S		
Q304	8-729-018-23	TRANSISTOR	TPS626-F		
Q306	8-729-602-21	TRANSISTOR	2SC4154-F		
Q307	8-729-602-21	TRANSISTOR	2SC4154-F		
Q308	8-729-602-21	TRANSISTOR	2SC4154-F		
Q309	8-729-602-21	TRANSISTOR	2SC4154-F		
Q311	8-729-602-21	TRANSISTOR	2SC4154-F		
Q312	8-729-602-21	TRANSISTOR	2SC4154-F		
Q313	8-729-602-21	TRANSISTOR	2SC4154-F		
		< RESISTOR >			
R301	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R302	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R303	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R304	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R305	1-216-073-00	METAL CHIP	10K	5%	1/10W
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W
R307	1-216-073-00	METAL CHIP	10K	5%	1/10W
R308	1-216-073-00	METAL CHIP	10K	5%	1/10W
R309	1-216-073-00	METAL CHIP	10K	5%	1/10W
R310	1-216-073-00	METAL CHIP	10K	5%	1/10W
R311	1-216-073-00	METAL CHIP	10K	5%	1/10W
R312	1-216-089-00	METAL CHIP	47K	5%	1/10W
R313	1-216-073-00	METAL CHIP	10K	5%	1/10W
R314	1-216-073-00	METAL CHIP	10K	5%	1/10W
R315	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R316	1-216-049-00	METAL CHIP	1K	5%	1/10W
R317	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R318	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R319	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R320	1-216-017-00	METAL CHIP	47	5%	1/10W
R321	1-216-017-00	METAL CHIP	47	5%	1/10W
R322	1-216-017-00	METAL CHIP	47	5%	1/10W
R323	1-216-017-00	METAL CHIP	47	5%	1/10W
R324	1-216-017-00	METAL CHIP	47	5%	1/10W
R325	1-216-019-00	METAL CHIP	56	5%	1/10W
R326	1-216-019-00	METAL CHIP	56	5%	1/10W
R327	1-216-019-00	METAL CHIP	56	5%	1/10W
R328	1-216-019-00	METAL CHIP	56	5%	1/10W
R329	1-216-019-00	METAL CHIP	56	5%	1/10W
R330	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R331	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R332	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R333	1-216-073-00	METAL CHIP	10K	5%	1/10W
R335	1-216-049-00	METAL CHIP	1K	5%	1/10W
R336	1-216-049-00	METAL CHIP	1K	5%	1/10W
R337	1-216-079-00	METAL CHIP	18K	5%	1/10W
R340	1-216-027-00	METAL CHIP	120	5%	1/10W
R341	1-216-027-00	METAL CHIP	120	5%	1/10W
R342	1-216-027-00	METAL CHIP	120	5%	1/10W
R343	1-216-027-00	METAL CHIP	120	5%	1/10W
R344	1-216-027-00	METAL CHIP	120	5%	1/10W
R349	1-216-073-00	METAL CHIP	10K	5%	1/10W
R350	1-216-073-00	METAL CHIP	10K	5%	1/10W
R351	1-216-041-00	METAL CHIP	470	5%	1/10W
R352	1-216-041-00	METAL CHIP	470	5%	1/10W
R353	1-216-041-00	METAL CHIP	470	5%	1/10W
R354	1-216-041-00	METAL CHIP	470	5%	1/10W
R355	1-216-045-00	METAL CHIP	680	5%	1/10W
R356	1-216-045-00	METAL CHIP	680	5%	1/10W
R357	1-216-045-00	METAL CHIP	680	5%	1/10W
R358	1-216-045-00	METAL CHIP	680	5%	1/10W
R359	1-216-049-00	METAL CHIP	1K	5%	1/10W
R360	1-216-049-00	METAL CHIP	1K	5%	1/10W
R361	1-216-049-00	METAL CHIP	1K	5%	1/10W
R362	1-216-049-00	METAL CHIP	1K	5%	1/10W
R363	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R364	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R365	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R366	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R367	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R368	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R369	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R370	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R371	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R372	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R373	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R374	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R375	1-216-075-00	METAL CHIP	12K	5%	1/10W
R376	1-216-075-00	METAL CHIP	12K	5%	1/10W
R377	1-216-075-00	METAL CHIP	12K	5%	1/10W
R378	1-216-075-00	METAL CHIP	12K	5%	1/10W
R385	1-216-073-00	METAL CHIP	10K	5%	1/10W
R386	1-216-073-00	METAL CHIP	10K	5%	1/10W
R387	1-216-073-00	METAL CHIP	10K	5%	1/10W
R388	1-216-073-00	METAL CHIP	10K	5%	1/10W
R389	1-216-073-00	METAL CHIP	10K	5%	1/10W

PANEL | TRANSFORMER

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S301	1-692-296-11	SWITCH, KEY BOARD (▶▶ ▷▷)	
S302	1-692-296-11	SWITCH, KEY BOARD (◁◁ ◀◀)	
S303	1-692-296-11	SWITCH, KEY BOARD (■)	
S304	1-692-296-11	SWITCH, KEY BOARD (▷)	
S305	1-692-296-11	SWITCH, KEY BOARD (DISC 1)	
S306	1-692-296-11	SWITCH, KEY BOARD (⏏ DISC 1)	
S308	1-692-296-11	SWITCH, KEY BOARD (❚❚)	
S309	1-692-296-11	SWITCH, KEY BOARD (DISC 2)	
S310	1-692-296-11	SWITCH, KEY BOARD (⏏ DISC 2)	
S312	1-692-296-11	SWITCH, KEY BOARD (CONTINUE)	
S313	1-692-296-11	SWITCH, KEY BOARD (DISC 3)	
S314	1-692-296-11	SWITCH, KEY BOARD (⏏ DISC 3)	
S316	1-692-296-11	SWITCH, KEY BOARD (SHUFFLE)	
S317	1-692-296-11	SWITCH, KEY BOARD (DISC 4)	
S318	1-692-296-11	SWITCH, KEY BOARD (⏏ DISC 4)	
S320	1-692-296-11	SWITCH, KEY BOARD (PROGRAM)	
S321	1-692-296-11	SWITCH, KEY BOARD (DISC 5)	
S322	1-692-296-11	SWITCH, KEY BOARD (⏏ DISC 5)	
S324	1-692-296-11	SWITCH, KEY BOARD (REPEAT)	
S325	1-692-296-11	SWITCH, KEY BOARD (CHARATER ▷)	
S326	1-692-296-11	SWITCH, KEY BOARD (CHARATER ◁)	
S328	1-692-296-11	SWITCH, KEY BOARD (CURSOR)	
S329	1-692-296-11	SWITCH, KEY BOARD (MEMO INPUT)	
S330	1-692-296-11	SWITCH, KEY BOARD (ERASE)	
S331	1-692-296-11	SWITCH, KEY BOARD (TIME/MEMO)	
S332	1-692-296-11	SWITCH, KEY BOARD (SOUND FIELD FILE)	
		< VIBRATOR >	
X301	1-577-359-21	VIBRATOR, CERAMIC (4.19MHz)	
**********			
*	A-4649-456-A	TRANSFORMER BOARD, COMPLETE (EXCEPT AEP, UK, G, IT)	
*	A-4649-461-A	TRANSFORMER BOARD, COMPLETE (G)	
*	A-4649-464-A	TRANSFORMER BOARD, COMPLETE (AEP, UK, IT)	
		**********	
*	3-309-144-21	HEAT SINK	
	7-682-547-04	SCREW +BVTT 3X6 (S)	
		< CAPACITOR >	
C200	1-126-939-11	ELECT 10000uF 20% 16V	
C202	1-164-159-11	CERAMIC 0.1uF 50V	
C203	1-164-159-11	CERAMIC 0.1uF 50V	
C205	1-124-443-00	ELECT 100uF 20% 10V	
C206	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C207	1-164-159-11	CERAMIC 0.1uF 50V	
C208	1-124-443-00	ELECT 100uF 20% 10V	

Ref. No.	Part No.	Description	Remark
C209	1-164-159-11	CERAMIC 0.1uF 50V	
C210	1-164-159-11	CERAMIC 0.1uF 50V	
C211	1-124-443-00	ELECT 100uF 20% 10V	
C246	1-124-572-11	ELECT 100uF 20% 63V	
C247	1-124-907-11	ELECT 10uF 20% 50V	
C248	1-161-329-00	CERAMIC 0.0068uF 20% 16V	
C249	1-161-329-00	CERAMIC 0.0068uF 20% 16V	
C251	1-124-907-11	ELECT 10uF 20% 50V	
C254	1-124-902-00	ELECT 0.47uF 20% 50V	
C255	1-124-902-00	ELECT 0.47uF 20% 50V	
C256	1-124-907-11	ELECT 10uF 20% 50V	
C257	1-124-907-11	ELECT 10uF 20% 50V	
C258	1-162-282-31	CERAMIC 100PF 10% 50V	
		< CONNECTOR >	
* CN201	1-569-624-11	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 2)	
* CN213	1-564-499-11	PIN, CONNECTOR 6P	
* CN216	1-562-327-00	SOCKET, CONNECTOR 3P	
		< DIODE >	
D201	8-719-210-21	DIODE 11EQS04	
D202	8-719-210-21	DIODE 11EQS04	
D203	8-719-200-82	DIODE 11ES2	
D204	8-719-014-86	DIODE UZP-6.8BB	
D206	8-719-987-63	DIODE 1N4148M	
		< IC >	
IC201	8-759-604-86	IC M5F7807L	
IC202	8-759-604-30	IC M5F7808L	
IC203	8-759-821-93	IC LA5601	
IC204	8-759-821-93	IC LA5601	
IC213	8-759-633-42	IC M5293L	
		< RESISTOR >	
⚠R201	1-249-393-11	CARBON 10 5% 1/4W F	
⚠R202	1-249-405-11	CARBON 100 5% 1/4W F	
		< TRANSFORMER >	
⚠T201	1-450-984-11	TRANSFORMER, POWER	
**********			

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	
		**********	
11	1-696-633-11	WIRE (FLAT TYPE)	
78	1-452-676-11	MAGNET	
86	1-696-634-11	WIRE (FLAT TYPE)	
⚠155	8-848-144-11	DEVICE, OPTICAL KSS-240A	
156	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M1	X-4917-523-3	MOTOR ASSY, SPINDLE	
M2	X-4917-504-1	MOTOR ASSY, SLED	
M101	A-4660-232-A	MOTOR (CDM) ASSY	
M102	A-4460-232-A	MOTOR (CDM) ASSY	
M103	A-4460-232-A	MOTOR (CDM) ASSY	
S102	1-466-819-11	ENCORDER, ROTARY	

****

****
HARDWARE LIST
****

#1	7-682-546-04	SCREW +BVTT 3X5 (S)	
#2	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#3	7-624-106-04	STOP RING 3.0, TYPE -E	
#4	7-682-546-09	SCREW +PTT 3X5 (S)	
#5	7-685-645-79	SCREW +BTP 3X6 TYPE2 N-S	
#6	7-621-775-00	SCREW +B 2.6X3	
#7	7-621-255-35	SCREW +BVTT 2X5 (S)	
#8	7-621-773-95	SCREW +BVTT 2.6X6 (S)	
#9	7-685-531-14	SCREW +BTP 2.6X4 TYPE2 N-S	
#10	7-621-770-XX	SCREW +PTT 2.6X8 (S)	
#11	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#12	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
#13	7-621-255-15	SCREW +P 2X3	
#14	7-682-547-09	SCREW +BVTT 3X6 (S)	
#15	7-682-547-04	SCREW +BVTT 3X6 (S)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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SONY®
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

SUPPLEMENT-1

File this supplement-1 with the Service Manual.

Subject :

1. TEST MODE
2. BLOCK DIAGRAM
3. IC PIN DESCRIPTION

TEST MODE

1. Press the three keys: DISC1, DISC5 △ and ■ simultaneously to enter the Test Mode.

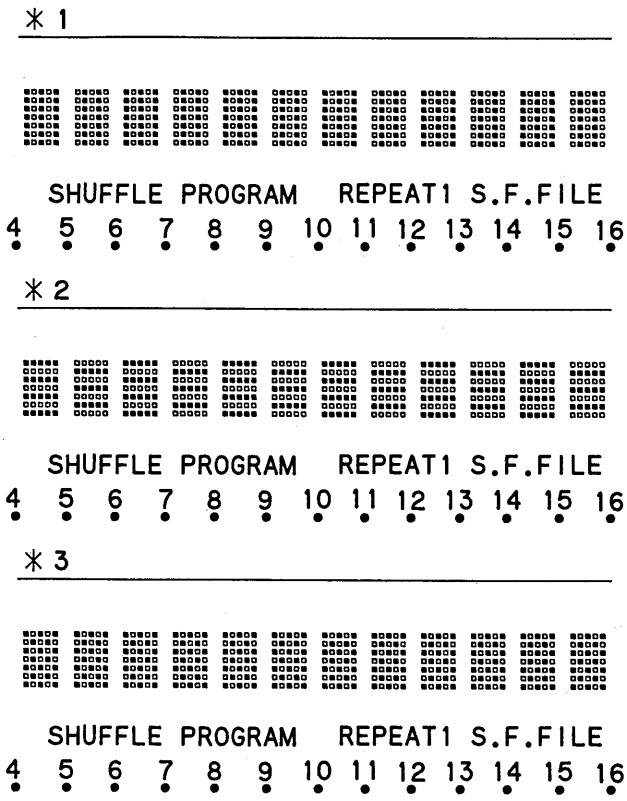
(1) FL Tube All Lighting

This mode is entered just after power is turned on.

(2) FL Tube Segment Check

This mode is entered when DISC1 △ key is pressed in mode (1).

Make sure that the mode changes from * 1 to * 2 to * 3 and then to * 1 and so on in turn each time DISC1 △ key is pressed.

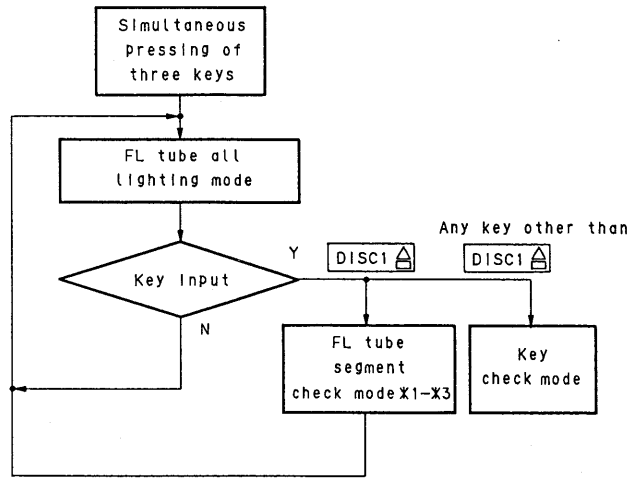

* 1
SHUFFLE PROGRAM REPEAT1 S.F.FILE
4 5 6 7 8 9 10 11 12 13 14 15 16
* 2
SHUFFLE PROGRAM REPEAT1 S.F.FILE
4 5 6 7 8 9 10 11 12 13 14 15 16
* 3
SHUFFLE PROGRAM REPEAT1 S.F.FILE
4 5 6 7 8 9 10 11 12 13 14 15 16

(3) Key Check

This mode is entered and "1" is displayed when and key other than DISC1 △ is pressed in mode (1). The number displayed is incremented each time any new key is pressed. Make sure that "7" is displayed when all the different keys have been pressed.

Note that once a key has been pressed, even if that key is pressed again, it is not be counted.

* To exit mode (2) and mode (3), press the three keys: DISC1, DISC5 △ and ■ simultaneously.

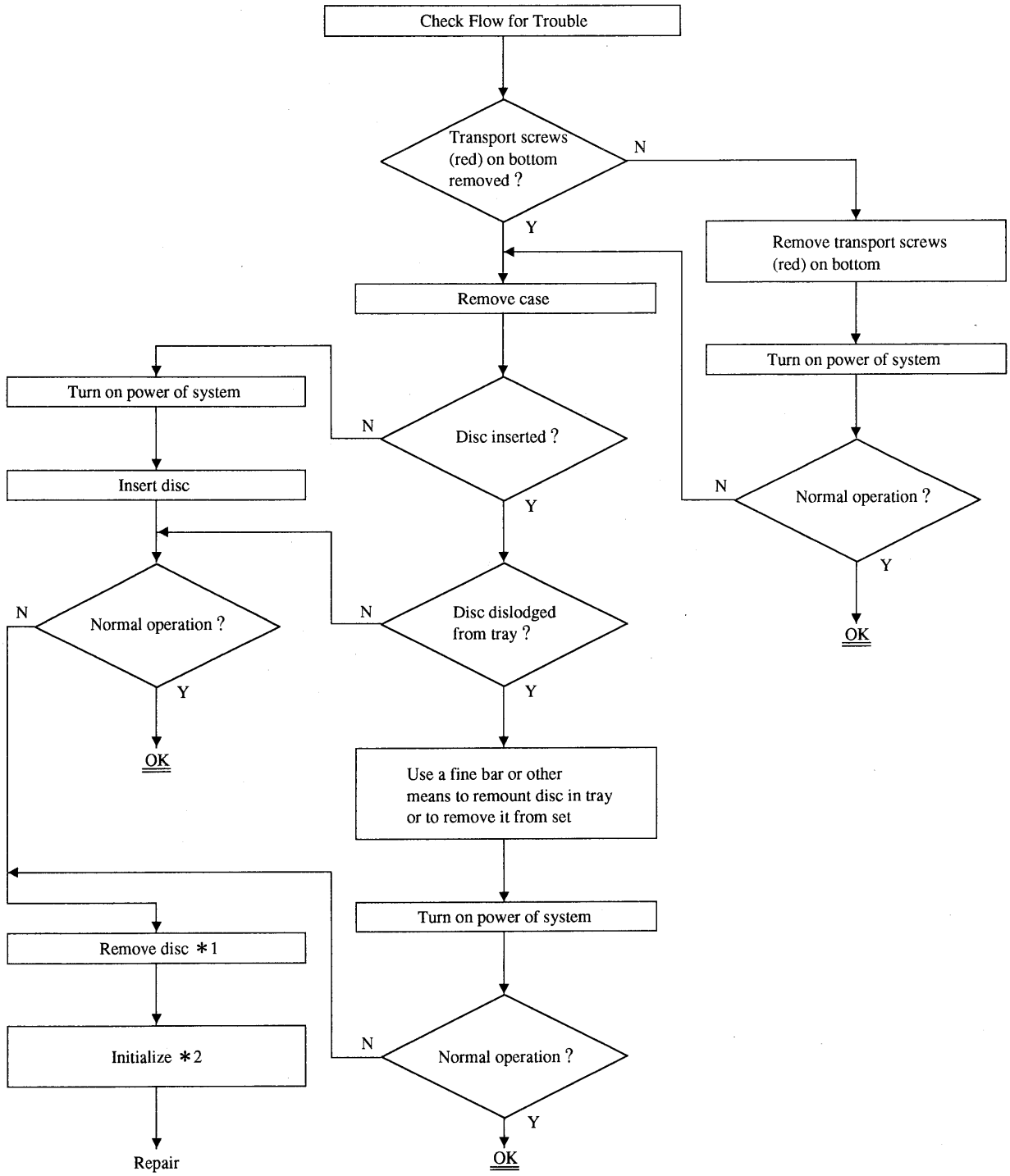


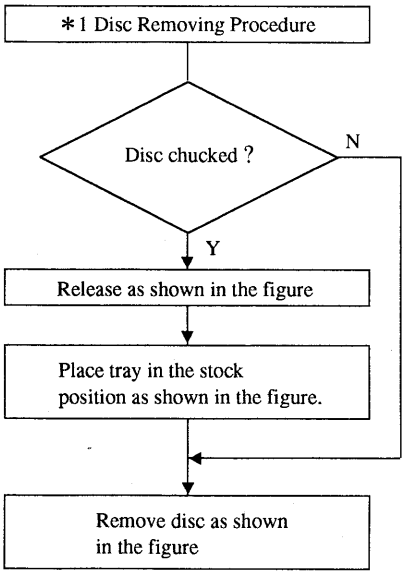
2. Test Mode for CD System Controller (IC250)

(1) ADJUST Mode

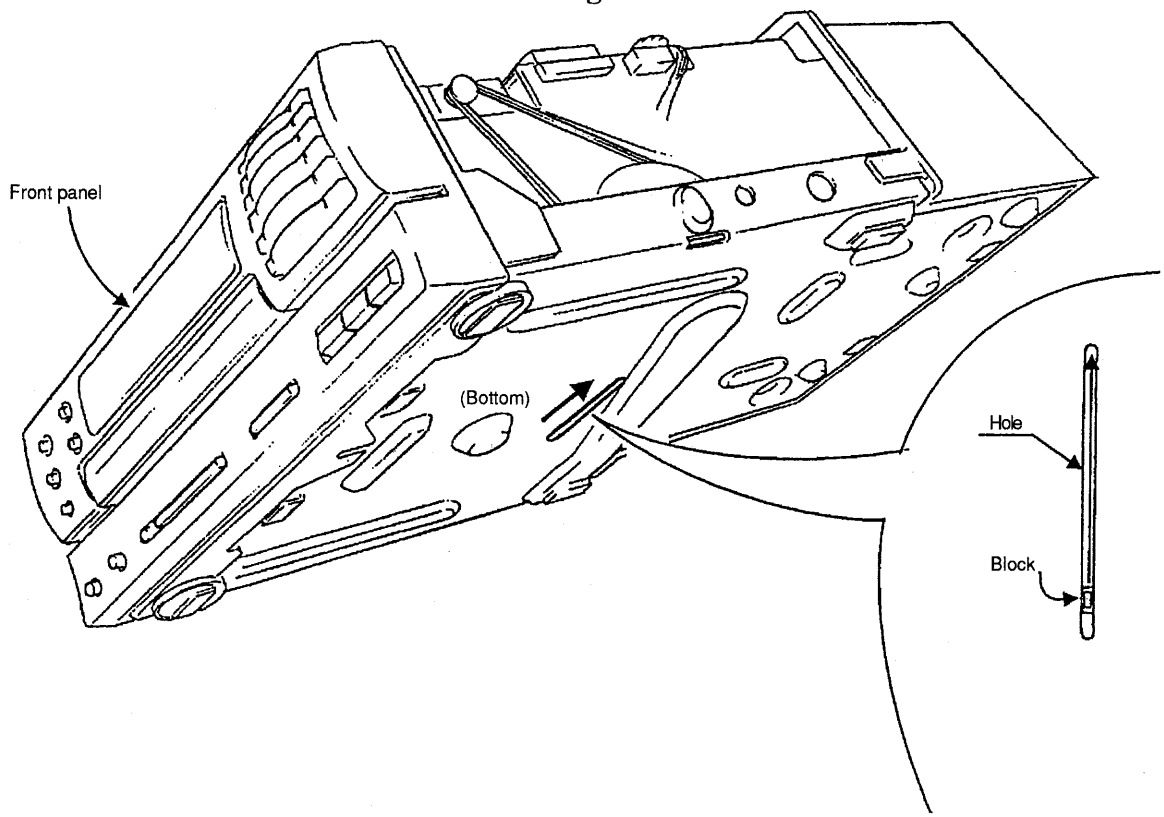
In this mode, the system looks like performing normal operation except that:

- When IC250 pin ㊸ (ADJ) is set "L" after power is turned on:
  - ① The system will not monitor GFS during PLAY, PAUSE and SEARCH. It will not STOP even if GFS remains "L" (NG).
  - ② No high speed feed is performed during SEARCH.
  - ③ Focus gain will be returned to normal during PLAY. (Usually, when focus is locked, the gain is decreased to redure noise.)
- When IC250 pin ㊾ (AFADJ) is set "L" after power is turned on:
  - ① CLV mode during PLAY will be CLV-S (rough servo) independent of the state of pin ⑲ (ADJ) as the CLV-S lock function.

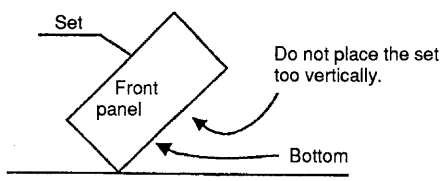

Check Flow for Trouble
Transport screws (red) on bottom removed ?
N
Y
Remove transport screws (red) on bottom
Turn on power of system
Normal operation ?
N
Y
OK
Remove case
Turn on power of system
Disc inserted ?
N
Y
Insert disc
Normal operation ?
N
Y
OK
Disc dislodged from tray ?
N
Y
Use a fine bar or other means to remount disc in tray or to remove it from set
Turn on power of system
Remove disc *1
Initialize *2
Repair
Normal operation ?
N
Y
OK

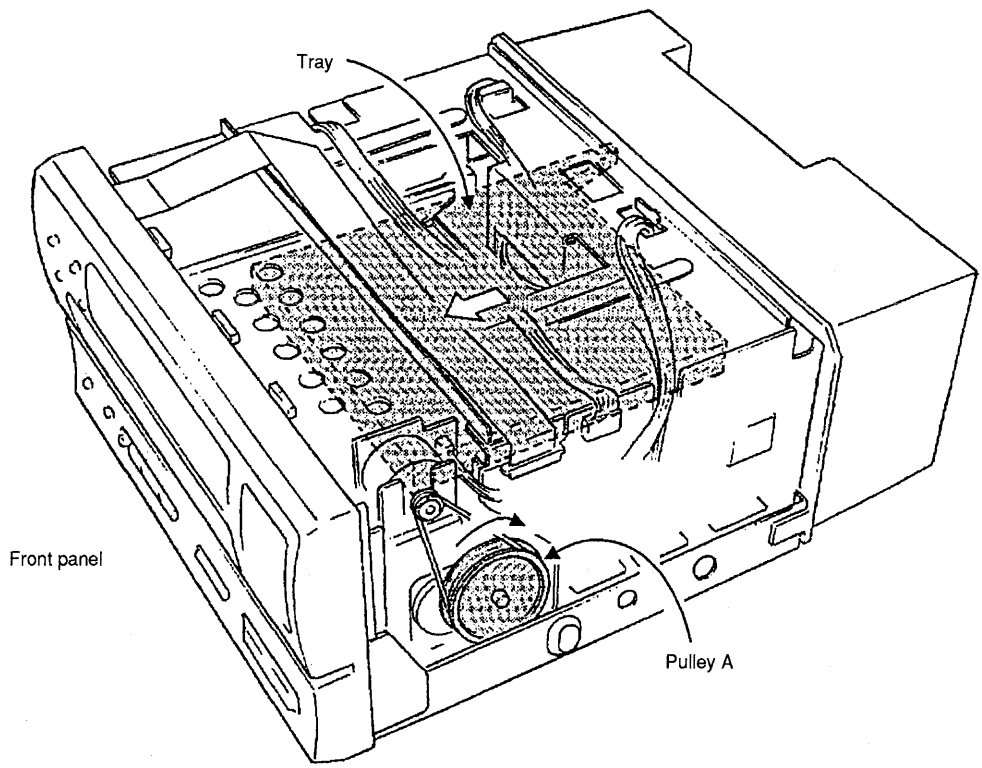

*1 Disc Removing Procedure
Disc chucked ?
N
Y
Release as shown in the figure
Place tray in the stock position as shown in the figure.
Remove disc as shown in the figure

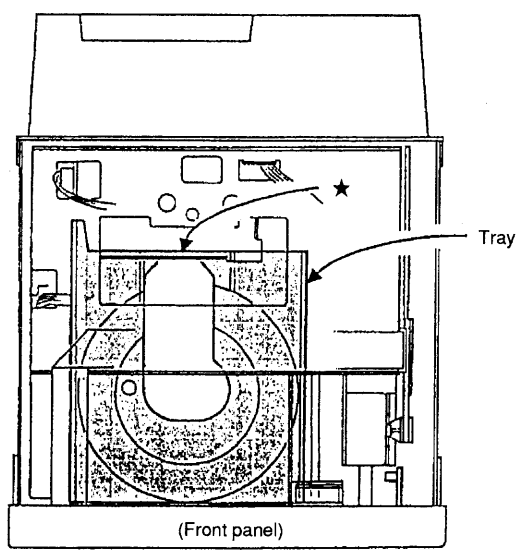
Disc Removing Procedure



1) Insert a fine bar into the hole and move the block in the arrow direction.
(If disc is chucked, to prevent fall of disc, place the set as illustrated below.)

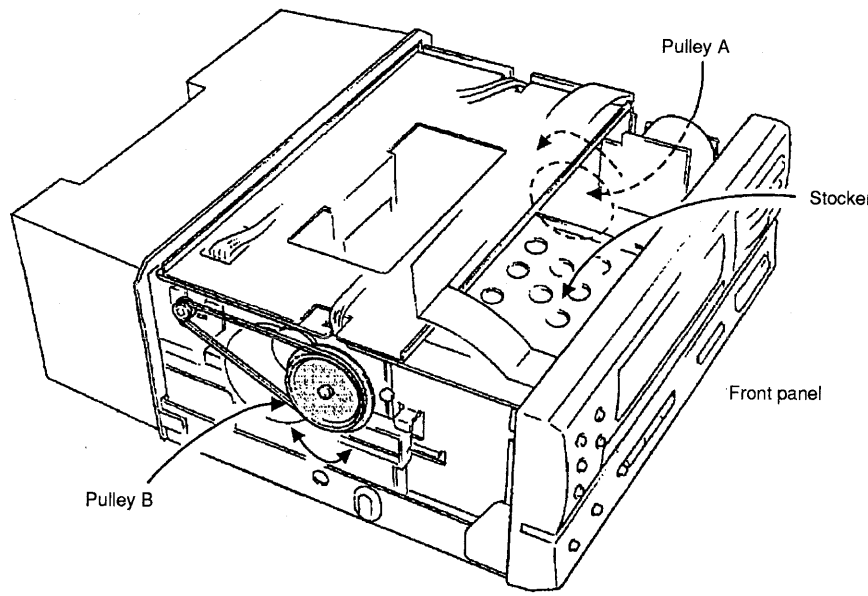




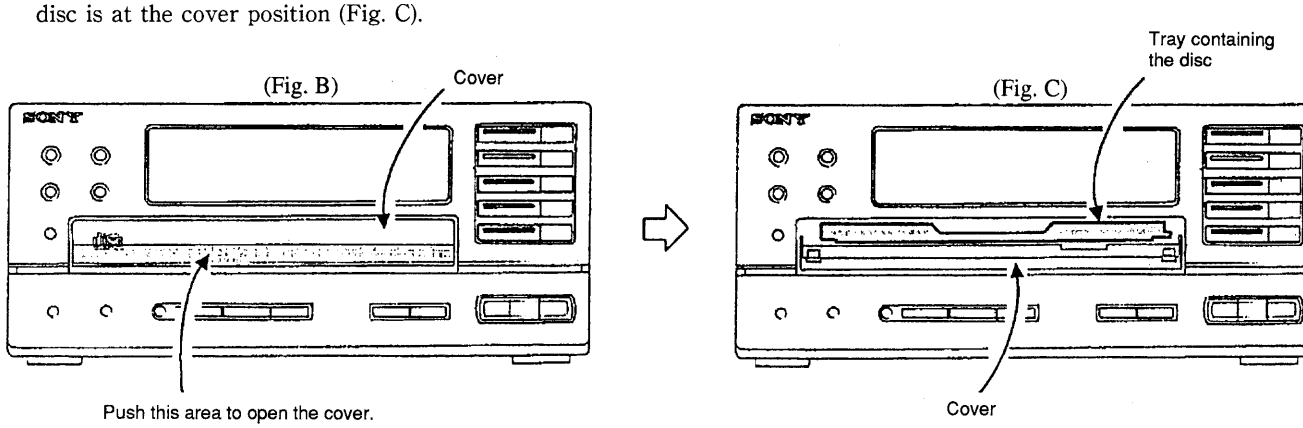


2) Rotate pulley A clockwise (↷). While observing the disc tray moves in the arrow (⇦) direction, move the tray until its rear is aligned with others (★ marked portion). (See Fig. A)

(Fig. A)



3) Rotating pulley B will move the stocker where disc trays are stocked up and down. Open the cover on the front panel (Fig. B) and adjust so that the tray containing the disc is at the cover position (Fig. C).



4) Rotating pulley A counterclockwise (↶) will eject the tray containing disc. Remove the disc, then rotate pulley A clockwise to return the tray to the position as shown in Fig. A.

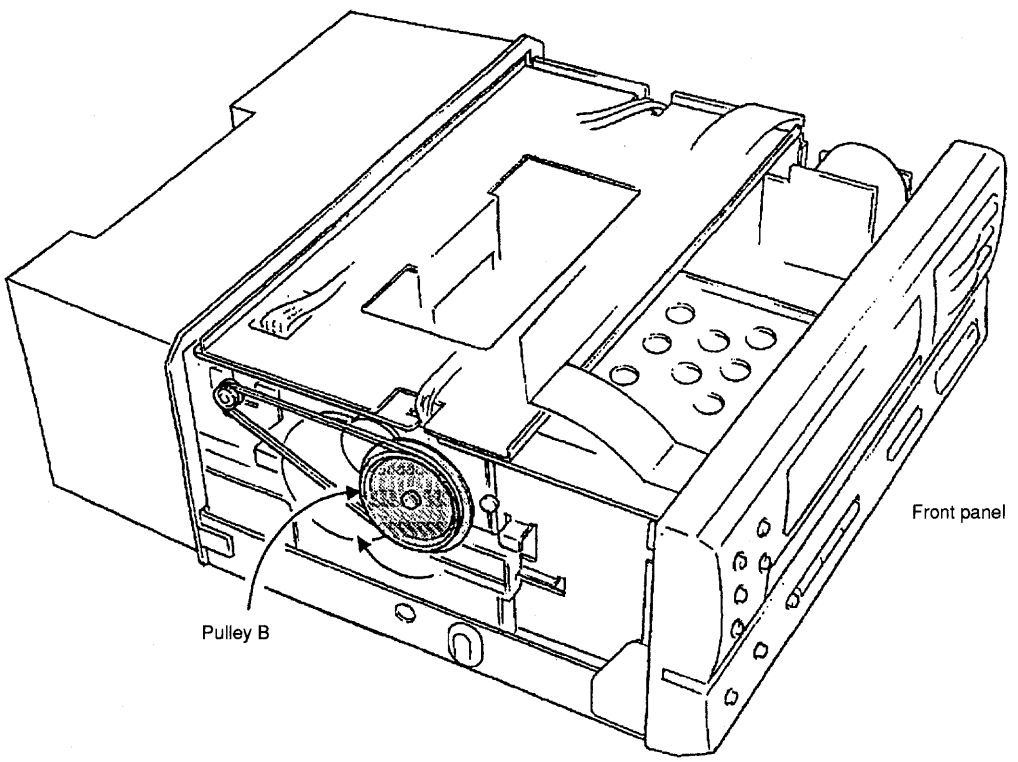
- If some trays contain disc, repeat Items 3) and 4).

* 2 Initializing Procedure

1) If mechanism is operated when power of system is turned on :
Make sure that all disc are removed. Open DISC No. 1.
↓
Turn off power of system.
↓
"OFF" characters flash on the CD display.
↓

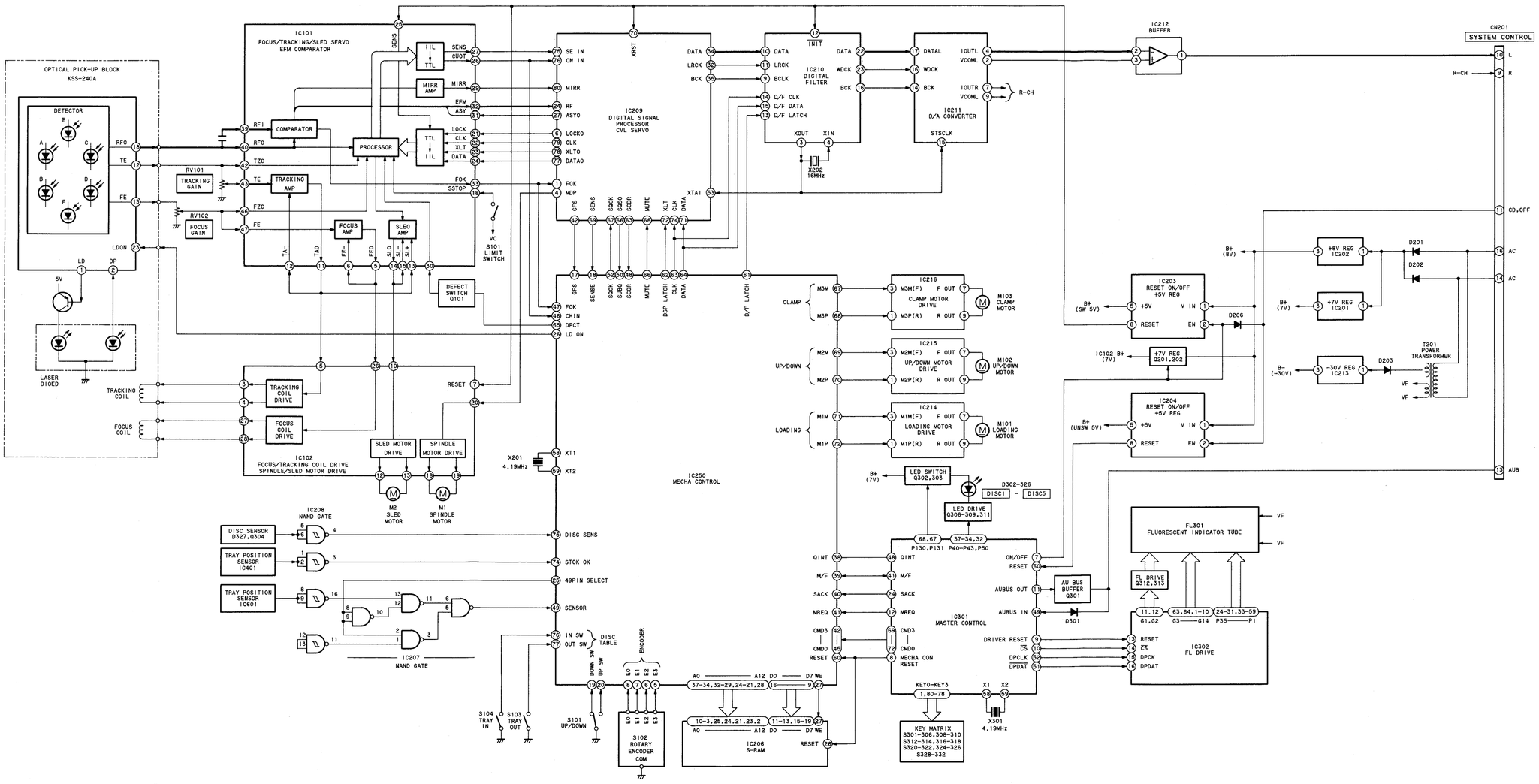
2) If mechanism is operated when power of system is turned on :
Move disc tray as shown in the figure.

Initializing Procedure



* Make sure that all the trays are arranged to the position shown in Fig. A, then rotate pulley B in the arrow direction until it stops.

BLOCK DIAGRAM



IC PIN DESCRIPTION

• IC250 μPD75516GF-399-3B9 Mechanism Controller Microprocessor

For operations with the CD unit's IC101 (RF signal processing and servo), IC209 (DSP and digital filter) loading control, IC206 (SRAM), and data exchange with IC301 (master controller).

Pin No.	Pin Name	I/O	Description
1	NC		No connect pin
2	AVDD	—	Power pin (+5V)
3, 4	VDD	—	Power pin (+5V)
5—8	E3—0	I	Stocker position detection encoder input (4-bit parallel decoder). * 1
9—16	D7—0	O	Data output port of IC206 (64K SRAM) (8-bit parallel data).
17	GFS	I	GFS signal input from IC209 (CXD2500BQ). "L" for NG, "H" for OK.
18	SENSE	I	SENS input from IC101 (CXD1372Q) and IC209 (CXD2500BQ).
19	$\overline{\text{DOWN SW}}$	I	Down input of S101 (BD Up and Down switch).
20	$\overline{\text{UP SW}}$	I	Up input of S101 (BD Up and Down switch).
21—24	A11—8	O	IC106 (64K SRAM) address output port.
25	49 PIN SELECT	O	Pin ㊾ function select. Always "L" for use of Stock IN in this set.
26	LD ON	O	BD laser diode control output. "H" to toggle ON, "L" to toggle OFF.
27	WE	O	IC206 (64K SRAM) write enable output. "H" to disable, "L" to enable.
28—32	A12, A7—4	O	IC206 (64K SRAM) address output port.
33	GND	—	Power pin (GND)
34—37	A3—0	O	IC206 (64K SRAM) address output port.
38	QINT	I/O	Interrupt signal output during communication with master controller. * 2
39	M/$\overline{\text{F}}$	I/O	To determine type of communication with master controller. "H" for mechanism command data, "L" for file command data.
40	SACK	I/O	Answer code input from master controller during communication with master.
41	MREQ	I/O	Master request signal input for communication with master controller.
42—45	CMD3—0	I/O	Command data line in communication with master controller.
46	CHIN	I	Track jump count input from IC101 (CXD1372Q).
47	FOK	I	Focus OK signal input from IC101 (CXD1372Q). "H" for OK.
48	SCOR	I	Sub code sink S0+S1 detection input from IC209 (CXD2500BQ).
49	SENSER	I	STOK IN signal input in this set.
50	SUBQ	I	Sub code Q data input from IC209 (CXD2500BQ).
51	GND	—	Power pin (GND)
52	SQCK	O	Sub code Q data read clock output to IC209 (CXD2500BQ).
53	$\overline{\text{ADJ}}$	I	Test Mode input. "L" to enter Test Mode.
54	GND	—	Power pin (GND)
55	XT1	—	Not used (GND)
56	XT2	—	Not used (Open)
57	GND	—	Power pin (GND)
58, 59	X1, 2	I	System clock input (4.19MHz)
60	$\overline{\text{RESET}}$	I	System clock input. "L" to reset.
61	D/F LATCH	O	IC210 (MSM6538) latch signal output.
62	DSP LATCH	O	IC209 (CXD2500BQ) latch signal output.
63	CLK	O	Clock data output to IC210 (MSM6538).

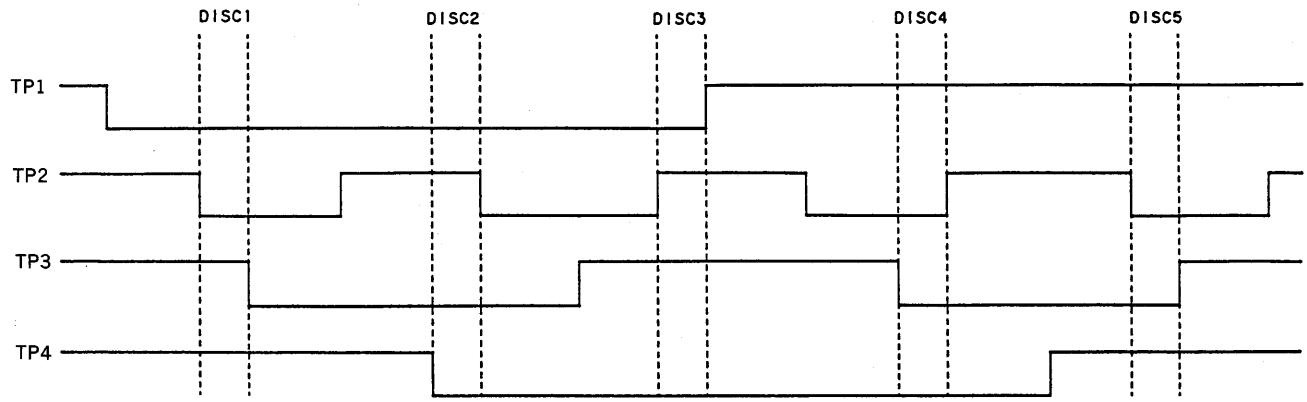
Pin No.	Pin Name	I/O	Description
64	DATA	O	Data output to IC210 (MSM6538).
65	DFCT SW	O	Used during focus search to turn OFF (set "H") flaw detection circuit of ON/OFF select output DISC in DEFECT circuit of IC101 (CXD1372Q).
66	MUTE	O	Muting control output. "H" to mute.
67	M3M	O	Clamp motor control output
68	M3P	O	
69	M2M	O	Stocker motor control output
70	M2P	O	
71	M1M	O	Loading motor control output
72	M1P	O	
73	AGND	—	Power pin (GND)
74	STOK OK	I	Tray position detection input. "L" for stocker UP/DOWN enabled position.
75	DISC SENS	I	Used to determine whether disc is present or not. "⊓": With, "—": Without
76	$\overline{\text{IN SW}}$	I	S103 (Loading In switch) input
77	$\overline{\text{OUT SW}}$	I	S104 (Loading Out switch) input
78	$\overline{\text{TEST}}$	I	Test Mode input. "L" for Test Mode.
79	$\overline{\text{AF ADJ}}$	I	
80	NC		No connect pin

	UP	DOWN	BREAK
P	H	L	H
M	L	H	H

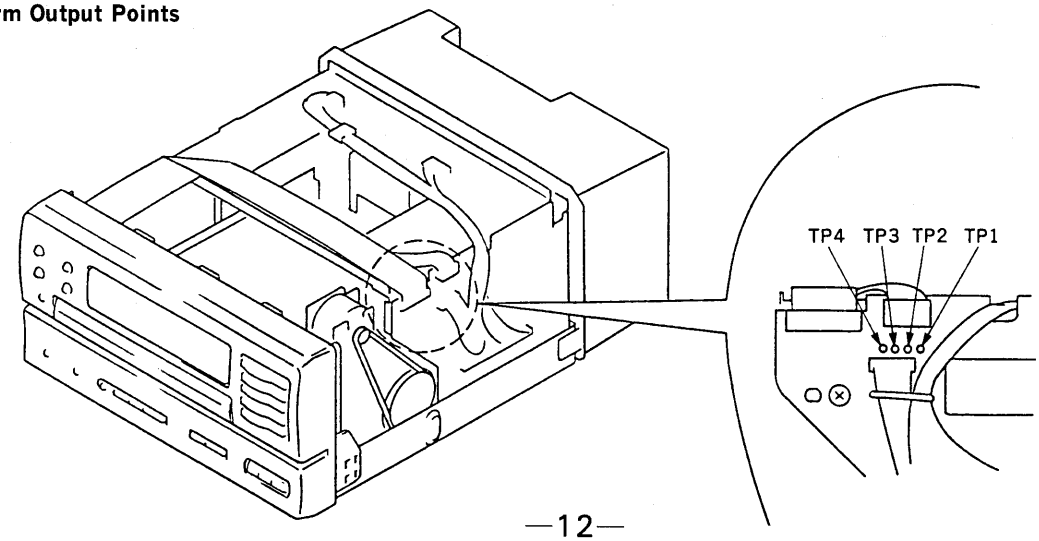
	UP	DOWN	BREAK
P	H	L	H
M	L	H	H

	OUT	IN	BREAK
P	H	L	H
M	L	H	H

* 1 Encoder output waveform from DISC1 to DISC5



Waveform Output Points



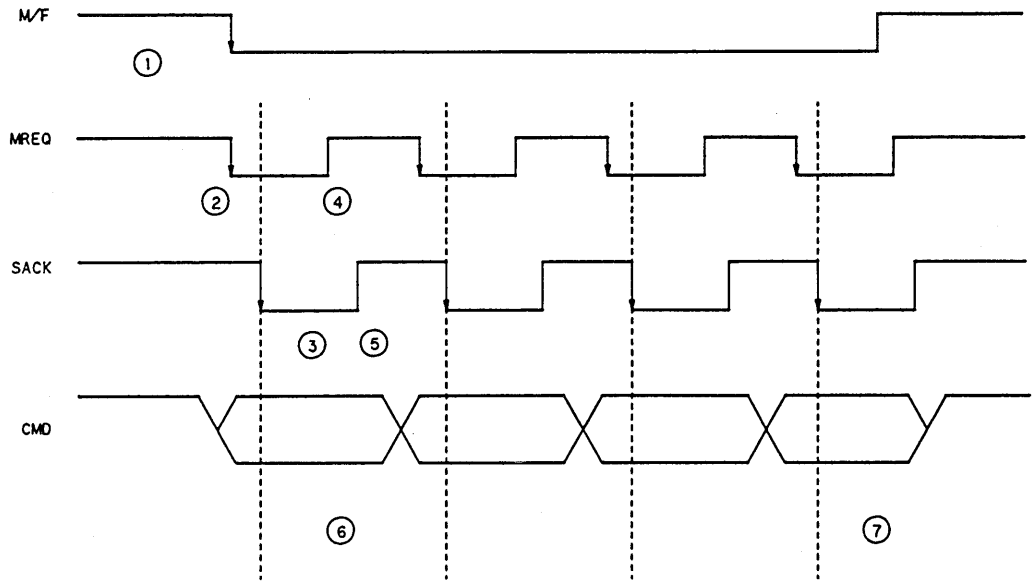
* 2 Communications between mechanism microprocessor IC250 and master microprocessor IC301
Format in general communications.....(1) and (2)

Initial Communication

Initial communication is made between mechanism microprocessor IC250 and master microprocessor IC301 in their respective initial routines. This has a different format from general communications. Handshake is performed in MTREQ and SACK. If any fault occurs in initial communication, the communication stops at that points, so the indicator remains extinguished.

(1) Command Receive and Transmission
Communications between mechanism controller and master controller are made using eight signal lines between their ports (CMD1, CMD2, CMD3, CMD4, MREQ, SACK, M/F and QINT).

Format of Receive and Transmission from Master

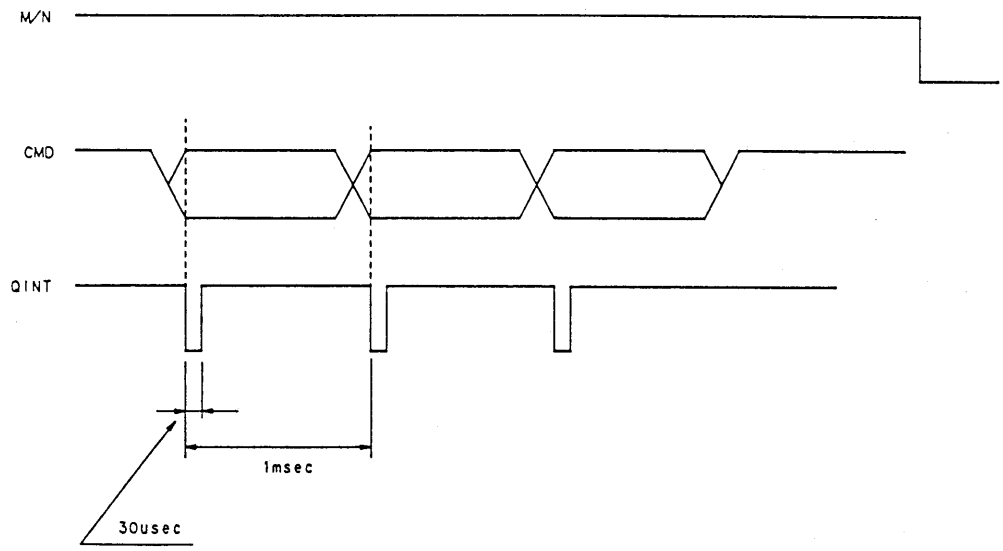


Timing of transmit from master controller to mechanism controller

① M/F pin is to be set "High" when master microprocessor sends mechanism command and "Low" when it sends a file command. Mechanism controller will not make Q data communication when M/F pin is "Low".
② When sending a command from master microprocessor to mechanism controller, the data is put on the CMD line and this pin (MREQ) is set "Low".
③ Mechanism controller monitors the MREQ pin in its main routine. It latches the CMD data when the pin is at "Low" level. Then, it sets this pin (SACK) "Low".
④ Master controller confirms that the SACK pin is set "Low" and it sets the MREQ pin "High".
⑤ Then, when the MREQ pin is "High" and the SACK pin is "Low", mechanism controller sets the SACK "High" and it is ready to accept the send command.
⑥ The signal from master begins with "A"—"E". If the mechanism controller receives any code other than this, it treats as an error.
⑦ This signal ends with "F". After this is confirmed, the flag is set and the command is then decoded in the main routine.

(2) Format of Transmission to Master

The QINT pin, M/F pin and MD port are used to send a command to master microprocessor. This transmission from mechanism controller to master microprocessor is used for responses to DISC status information, SW state and file information. Also, the same transmission format is used to send Q data from mechanism controller to master.



When data can be sent from mechanism controller, the data is then sent to the CMD line. Therefore the QINT pin of mechanism controller is dropped by about 30μsec.

The timing of data transmission is controlled by timer process within microprocessor so that data will be sent at intervals of 1 msec.

The QINT pin of master controller is an interrupt port, so data sent from mechanism controller is to be received.

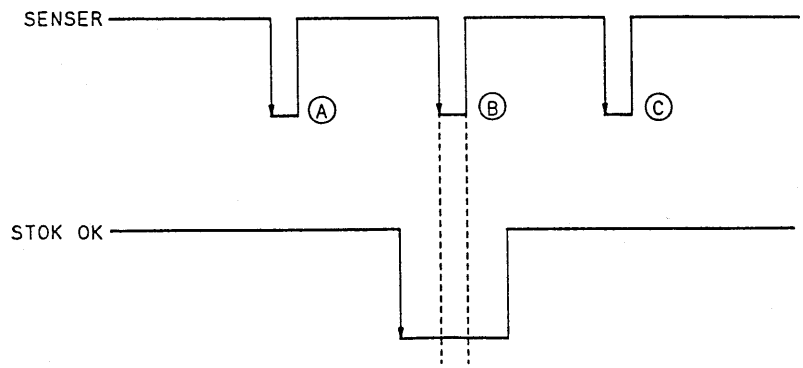
Any request from master microprocessor (MREQ pin "Low") during data transmission to master will take first priority in processing.

Basic Condition of Mechanism Controller

Mechanism controller takes precedence over instruction from master microprocessor.

(3) Timing at Pins ㊾ and ㊹ of IC250

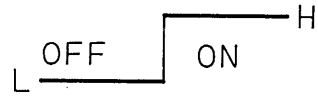
Waveform at SENSER (IC250 pin ㊾) and STOK OK (IC250 pin ㊹) when tray is OPEN/CLOSE



As shown above, the center pulse (Ⓑ) of SENSER mute fall within the pulse of STOK OK when tray is OPEN/CLOSE. If any of the pulses on both sides (Ⓐ and Ⓒ) of SENSER is input for BOX UP/DOWN, the mechanism microprocessor reduces the tray speed, stops in the position (Ⓑ) and allows UP/DOWN movement.

If there is any abnormality in the OPEN/CLOSE relationship, these two waveforms should be checked.

• IC301 μPD75518GF-059-3B9

Pin No.	Signal	Pin Name	Description
1	AN0	KEY0	KEY analog input
2	AVREF		+5V
3, 4	VDD		
5	P113		Open
6	P112	DRIVER	Driver reset
7	P111	ICON OFF	Servo system ON/OFF 
8	P110	MEC REST	Mechanism controller reset
9	P103		Open
10	P102	$\overline{CS}$	Driver chip select
11	P101	BUS OUT	Audio bus output port
12	P100	$\overline{MREQ}$	For communication with mechanism controller, and master request.
13	P93	AUB/$\overline{SIR}$	Switching between BUS and SIRCS (no function)
14	P92	$\overline{TEST}$	This pin is set "L" and POWER is ON to display the accident code
15	P91	$\overline{SUF, REP}$	This pin is set "L" to operate ALL DISCS SHUFFLE REPT
16	P90	SFIL/$\overline{EDT}$	This pin is set "L" to change S. F. FILE key to EDIT key
17—20	P83—80		+5V
21—23	P73—71		+5V
24	P70	SACK	For communication with mechanism controller, and Answer Code from master.
25—28	P63—60		Open
24—31	P53—51		
32	P50	LED4	LED data
33	VSS		GND
34—37	P43—40	LED3—0	LED data
38—40	P23—20		Open
46, 47	P13, 12		GND
48	INT1	QINT	Interrupt from mechanism controller
49	INT0	BUSIN	Interrupt of audio bus
50	P03		+5V
51	SO0	DPDAT	Output as serial port, used as serial clock to send displayed data to driver.
52	SCK0	DPCK	
53	P00		GND
54	VSS		GND
55	XT1		GND
56	XT2		Open
57	IC		GND
58	X1		4.19MHz oscillator
59	X2		
60	$\overline{RESET}$		Reset input for this microprocessor

Pin No.	Signal	Pin Name	Description
61—64	P143—140		Open
65, 66	P133, 132		
67, 68	P131, 130	LEDG1, 0	LED digital 1, 0.
69—72	P123—120	CMD3—0	Communication with mechanism controller (data 3—0)
73	AVSS		GND
74—77	P153—150		GND
78—80	AN3—1	KEY3—1	KEY analog input

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SONY

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
21	M102	A-4460-232-A	MOTOR (CDM) ASSY	☛ A-4660-232-A	MOTOR (CDM) ASSY
	M103	A-4460-232-A	MOTOR (CDM) ASSY	☛ A-4660-232-A	MOTOR (CDM) ASSY

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